Model (1)

1 Ch	oose the correct answ	ver:				
1	1 The leaves of most desert plants are					
	a. are large and brod	ıd	b. are small and h	nave thorns		
	c. broad and have the	orns	d. lose water eas	ily		
2	Which of the following	examples of movemer	nt cannot be observe	ed?		
	a. A train moving on	rails.				
	b. The movement of	the moon around Ear	th.			
	c. A ball moving in th	ne air.	d. A pen falling d	own.		
3	What happens to orga	nisms that do not have	methods that help t	them adapt to		
	environmental condition	ons?				
	a. Their number incre	eases.	b. They extinct.			
	c. They remain the so					
	_	the ecosystem incre				
4	The organ which is res	ponsible for the sense of	of sight is the			
	a. ear	b. eye	c. nose	d. skin		
5	Which of these materia	als reflects light better?				
	a. Wood	b. Mirror	c. Plastic	d. Cardboard.		
6	Which of the following	examples represents a	pull force?			
	a. The attraction of t	he Earth to an object	b. Pushing a box t	to move it.		
	c. The player kicks th	ne ball.	d. The goalkeepe	r stops the ball.		
7	The energy produced	when the electric heat	er is turned on is the	energy.		
	a. electrical	b. sound	c. thermal	d. chemical		
8	Fish breathe the dissol	ved oxygen in water th	rough			
	a. skin	b. lungs	c. gills	d. stomach		
9	To calculate the velocit	y of a body, we need to	know			
	a. distance only		<mark>b.</mark> time only			
	c. energy and time		d. distance and ti	me		
10	What are the two orga	ns that represent the co	entral nervous syster	n?		
	a. Cerebellum and th	ne vertebral column.	b. Spinal cord and	the brain.		
	c. The sensory and m	notor system.	d. The brain and i	medulla oblongata.		

2 Complete the following sentences using the given words:	
(respiratory – balanced - digestive - movements - structural - behavioral - 4 - 1	00 - unbalanced)
1 Bees are similar to humans in communicating through	
A body that travels a distance of 20 meters in 5 seconds, so its speed is	m/s.
3 Whenforces act on a static body, it will move.	
4 Migration of birds to warm places is an example of adaptation.	
5 The system that digests food and obtains nutrients is system.	
3 Put (\checkmark) or (X) in front of each of the following sentences:	
1 Communication between ants is through their sense of smell.	()
2 Human has tapetum lucidum in his eye to help him see at night.	()
The energy stored in the battery is called chemical potential energy.	()
When the speed of a body decreases, its kinetic energy increases.	()
5 The nervous system works separately from the senses.	()
4 Write the scientific term for each of the following sentences using the give	en words:
(Friction - Kinetic energy - Energy - Adaptation - Response tir	ne)
1 A distinctive feature of an organism that helps it to survive.	()
2 The time taken by a body to receive information from the environment, and	then processes
it and responds to it.	()
3 A force that arises between the surfaces of two bodies in contact and slows	down their
motion.	()
4 The ability to do work.	()
5 The energy possessed by the body due to its motion.	()
5 Choose from column (B) what suits in column (A):	
(A)	(B)
1 The visible form of energy that is transmitted in the form of waves is energy.	() Language.
2depends on sound bounce in locating the prey.	() light.
3 energy is stored in food.	() unbalanced.
When a rocket is launched and is able to leave the planet, because it is	() Chemical.
affected by forces.	
5is a code in the form of sounds to convey information.	() Bat.

Model (2)

1 Ch	noose the correct answ	/er:		
1	The eyes narrow involu	untarily to avoid sudde	n bright light, what a	are the two organs
	responsible for this?	·		-
	a. Nervous and musc	cular.	b. Nervous and re	espiratory.
	c. Circulatory and m	uscular.	d. Circulatory an	•
2	Digestion of food begi		_	, -
	a. anus	b. stomach		d. large intestine
3	helps the	human being to maint		
	a. eroding the soil		b. planting trees	
	c. cutting trees			rban communities
4	Which of the following	cases represents the t	_	
	organs to the nervous			J
	a. When you take yo		ject.	
	_	after hitting the tabl		
	•	bleeds after being inj		
	d. When your finger			•
5	A boat moves a distan	ce of 30 meters in a tin	ne of 10 seconds, so i	ts speed is m/s.
	a. 3	b . 10	c. 30	d. 300
6	Which statement expla	ains why you see your	reflection when you l	ook in the mirror?
	a. The light is refract	ed when it passes th	rough the mirror.	
	b. The light is reflect	ed back from the mir	ror.	
	c. The light is refract	ed and bounced off t	he mirror.	
	d. The light is reflect	ed when it passes thr	ough the mirror.	
7	The class students play	tug-of-war in the cou	rtyard, and there are	ten students on both sides
	of the rope, what indic	ates that none of them	n moved?	
	a. One team has mo	re energy than the of	her.	
	b. One team has half	f the energy of the ot	her team.	
	c. Both sides have eq	ual and opposite for	ces in direction.	
	d. Both teams have u	inequal and opposite	forces in direction.	
8	You can determine the	roughness of a sound	by	
	a. pitch		b. type of sound	
	c. echo		d. pattern and ty	pe of sound
9	Which of the following	allows light to pass th	rough?	
	a. Wood.	b. Glass.	c. Metal.	d. Wall.
10	Among the examples of enemies are	•	ons that help an anim	nal to protect itself from
	a. extinction	b. migration	c. reproduction	d. camouflage

2 Complete the following sentences using the given words:	
(chemical - thermal - exhalation - inhalation - kinetic - position - ec	:ho - friction)
1 The dolphin can locate objects through echolocation by	
When objects fall downward, the energy stored in them is converted into	
3 The diaphragm muscle contracts and moves down during the process of	•
When you ride your bike, theenergy which is stored in food in converted into kinetic energy.	nside your body is
5 The force that reduces the speed of a body and affects in the direction op motion is	posite to its
3 Put (✓) or (X) in front of each of the following sentences:	
1 Plants need long roots that extend deep into the soil to survive in the water scarci	ity environment. ()
2 The number of breathing times decreases when doing activities and make	ing effort. ()
3 As the force acting on a body increases, the distance it moves increases.	()
4 Some insects can communicate by sending flashes of light.	()
We can see things around us as a result of refraction of light.	()
4 Determine the type of adaptation whether "structural or "behavioral":	
1 The buttress roots of some plants.	()
2 The beaks of some birds are sharp and strong to tear the flesh of prey.	()
3 Some animals hide in burrows to avoid the intense summer heat.	()
4 The presence of gills in fish to help them breathe in water.	()
5 Frogs hibernate to avoid the extreme drop in temperatures.	()
5 Give an example for each of the following:	
1 Transparent material.	
Technological communication systems.	
3 A device that converts electric energy into light and heat energy.	
4 An animal has the ability to turn its head in all directions.	
5 Pushing force.	

Model (3)

CL	noose the correct answ			
1	When gasoline is burn	ed, the stored chemical	l energy is released i	n the form of
	a. smokes		b. carbon dioxide	gas
	c. spark		d. heat	
2	What kind of surfaces	scatter the light randon	nly?	
	a. Shiny.	b. Rough.	c. Smooth.	d. Transparent.
3	The antelope that lives	in the vast plains adap	ts by	
	a. thick fur that help	s to keep warm in wir	nter	
	b. long legs that hel	p it to run quickly		
	c. bright colors help	him to attract the otl	ner sex	
	d. a strong outer she	ell protects it		
4	Humpback whales use	e singing for	•	
	a. warming		b. hiding from end	emies
	c. mating and feeding	g	d. having fun with	n whales
5	The organ that process	ses and interprets infor	mation similar to a c	omputer is
	a. spinal cord	b. skin	c. brain	d. nerves
6	The movement of a sa	ilboat in the water by th	ne action of the air is	force.
	a. pull	b. push	c. friction	d. gravity
7	As the time taken to tr	avel a certain distance i	increases, the speed	of the body
	a. increases	b. does not change	c. decreases	d. doubles
8	is the sens	e that you use to ident	ify the smell of a per	fume.
	a. Taste	b. Sight	c. Smell	d. Hearing
9	The juices of the liver a	and pancreas are poure	d into	
	a. the stomach		b. the small intes	tine
	c. the large intestine		d. the mouth	
10	The tapetum lucidum	is one of the	adaptations that e	enable some animals to see
	in the dark.			
	a. structural	b. behavioral	c. (a and b)	d. no correct answer

2 Complete the following sentences using the given brackets:	
1 The echo sound feature depends on thesense.	(smelling – hearing)
2 The time taken to receive information from the environment and resp	ond to it is
called (read	ction time - speed time)
3 Electric wires transmitenergy to homes and streets.	(chemical - electric)
The force that causes the fruits to fall from the tree downwards is the	
	pushing force - gravity)
5 Fish use to extract dissolved oxygen in the water.	(lungs - gills)
3 Correct the underlined words:	
1 Cows have sharp teeth suitable for eating grass.	()
2 When the body reaches its maximum height, it stores maximum kines	ic energy.
	()
3 The bowl-like face of an owl is an example of <u>behavioral</u> adaptation.	()
4 Sound is the visual form of energy that is transmitted in the form of w	raves. ()
5 When the body speed increases, its kinetic energy decreases.	()
4 Choose from column (B) what suits in column (A):	
(A)	(B)
1 When an unbalanced force is applied to a static body.	() Diaphragm.
When the wall opposes a moving car and stops it.	() Nerves.
3 Wood is an	() Opaque material.
4 Carry messages from the brain and spinal cord to the rest of the body.	() it starts to move.
5 A large muscle that helps in the inhalation and exhalation processes.	() it is a friction force.
5 Determine the type of the energy in each of the following cases:	
1 Energy stored in batteries.	()
2 The energy produced when the electric heater is turned on.	()
3 Energy stored in a ball at the top of a ramp.	()
The energy of a player while running.	()
5 The energy generated when the radio is turned on.	()

Model (4)

) Ch	oose the correct answ	ver:		
1	Which of the following	is a source of light?		
2		. Which device received		d. The mirror. neard the sound of a car g signal that enabled Ramy
	a. The circulatory sys	stem.	b. The excretory	system.
	c. The muscular syste	em.	d. The nervous sy	stem.
3	Fatima pushes a big bo	ox and Ezz comes to he	lp her.	
	How does this change	the force and the dista	nce moved by the b	ox? 🥌 🏯 🗫
	a. It does not change	e the force or the dist	ance.	7
	b. The force increase	s and distance decre	ises.	
	c. The force and dista	ance increase.	d. Its force decreas	es, its distance increases.
4	The system responsible	e for digesting food and	d supplying the body	y with nutrients is
5	a. respiratoryBats use their sense of	b. digestive to reach the	c. excretory	d. nervous litting objects
	a. sight	b. smell	c. hearing	d. taste
6	Which of the following the leaves of trees?	helps reptiles, such as	the panther chamel	eon, to hide among
	a. Colored scales.	b. Brown fur.	c. Short legs.	d. Golden fur.
7	The energy stored in a	compressed spring is c	considered	energy.
8	a. chemicalThe unit that measures		•	d. electric
9	a. seconds/meterWhat happens to the k	· ·	•	d. meter/kilometer
	a. It converts to sour	nd and heat energy	b.It converts to se	olar and potential energy
	c. Some of the energ	y is lost and some of	it turns into sound	energy
	d. Some energy is los	st and some energy to	urns into chemical (energy
10				en humans and animals.
	a. Mobile phone	b. Paintings	c. Flashes	d. Writing

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2 Complete the following sentence	es using the given brackets:			
1 Thein the mouth	moistens the food to facilitate its digestion	n and swalld	wing.	
		(tongue	e – teet	th)
2 The materials trans	smit light through them. (tr	ansparent –	opaqu	ıe)
3 The gravitational force is the fo	rce ofand its direction is always dow	n towards t	he ear	th.
		(pul	II – pus	sh)
4 A car that travels 80 km in two	hours is moving at a speed of	km / h. ((40 – 2	20)
5 The alveoli in are s gases are exchanged between	surrounded by a network of blood vessels blood and air.	through wh (trachea -tw		gs)
3 write True or False:				
1 When animals dig tunnels it is	a form of structural adaptation.		()
2 Meat-eaters animals have long	digestive systems.		()
3 The body's potential energy in	creases as it rises above the Earth's surface	2.	()
Energy transformations don't of	occur when food is cooked.		()
5 Objects move a great distance	when pushed with great force.		()
4 Write the scientific terms using	the given words:			
(speed – potential energy - re	eflexes - communication system – struct	ural adapta	ation)	
1 A change that occurs within th	e structure of the living organisms' bodies	5. (,)
2 A group of devices work together	to transfer information from one place to ano	ther. ()
3 The distance traveled per unit	time.	()
The stored energy inside the be	ody.	()
6 Messages that the nervous system	em sends quickly and you cannot control th	em. ()
5 Choose from column (B) the sen	sory information that suits each sense o	organ in col	umn (/	A):
(A)	(B)			
1 The hand	() Light coming from an open window.			
2 The eyes	() The bad smell.			
3 The tongue	() Heat from a hot stove.			
4 The ears	() Sour lemon taste.			
5 The nose	() Noise coming from the car loudspeaker.			

Model (5)

1	Choose	the	correct	answer
VШ,	CHOOSE	ciic	COLLECT	ali Swell

- 1 What is the energy transformation when riding a bike?
 - a. Thermal energy converts into potential energy.
 - b. Chemical energy converts into kinetic energy.
 - c. Solar energy converts into chemical energy.
 - d. Kinetic energy converts into nuclear energy.
- Which of the following can store energy?
 - a. Battery.
- b. Wire.
- c. Plastic.
- d. electric lamp.
- What is the necessary mathematical relationship to calculate the velocity?
 - a. distance ÷ time
- b. time ÷ distance c. mass ÷ time
- d. time ÷ mass
- 4 The leaves help plants absorb sunlight.
 - a. small
- b. broad
- c. triangular
- d. spiny
- 5 The diaphragm muscle contracts and moves downwards during the process.
 - a. inhalation
- b. exhalation
- c. digestion
- d. feeding
- - a. sight
- b. smell
- c. hearing
- d. taste
- 7 Which of the following allows light to pass through it?
 - a. Wood.
- b. Glass.
- c. Metal.
- d. Wall.

- The opposite figure represents force.
 - a. pushing

b. pulling

c. gravity

- d. friction
- Each of the following represents kinetic energy except —



- a. vibration of particles of the substance during heating
 - b. the movement of sound or light waves in the air
- c. the movement of electrons inside a wire
- d. a ball stuck to the top of a tree
- - a. light
- b. sound
- c. smell
- d. movement

2 Complete the following sentences using the given brackets:	
1 The velocity of a body increases when the time taken to cover a ce	ertain distance
	(increases - decreases)
2 The main source of light on the Earth's surface is the	(sun – fire)
3 The blood transports from the lungs to all the cells of	the body.
(oxyge	n gas - carbon dioxide gas)
The amount of energy required to move a body through the force	acting on it is known
as	(work - force)
When you knock on the door, theenergy changes int	
(kinetic -	sound / kinetic - potential)
3 Correct the underlined words:	
1 The spinal cord is the main control center in the human body.	()
Fish breathe the dissolved oxygen in water through the skin.	()
3 One of the negative effects of water pollution on humans is chest	disease. ()
4 A ball that rolls on a ramp gradually its potential energy increases	as it falls. ()
When <u>balanced</u> forces act on a static body, it moves.	()
4 Choose from column (B) what suits in column (A):	
(A)	(B)
1 A pattern has meaning	() The friction force
2 A force arises between two touching surfaces.	() Its speed increases
3 The light property helps us to see our image in mirror	() Chemical energy
4 The stored energy in gasoline	() Light reflection
When the applied force on object increases ,	() The code
5 Classify the following into (structural or behavioral) adaptation:	
1 The presence of sharp thorns in some desert plants.	()
2 The varied diet property in some animals.	()
3 The activity of bats at night to search for food.	()
4 Sharp teeth in predators.	()
5 The eyes of the panther chameleon move in different directions.	()

Model answer (1)

1 C	hoose the correct answ	ver:				
	1 The leaves of most desert plants are					
	a. are large and brod	ad	b. are small and h	ave thorns		
	c. broad and have th	orns	d. lose water easi	ly		
	Which of the followin	g examples of moveme	ent cannot be observ	ved?		
	a. A train moving on	rails.				
	b. The movement of	the moon around Ear	rth.			
	c. A ball moving in the	he air.	d. A pen falling d	own.		
	What happens to orga conditions?	anisms that do not have	methods that help th	em adapt to environmental		
	a. Their number incre c. They remain the s		b. They extinct.			
	_	f the ecosystem incre				
	The organ which is re	sponsible for the sense	of sight is the	•		
	a. ear	b. eye	c. nose	d. skin		
	Which of these mater	ials reflects light better	?			
	a. Wood.	b. Mirror.	c. Plastic.	d. Cardboard.		
	Which of the followin	g examples represents	a pull force?			
	a. The attraction of t	he Earth to an object.	b. Pushing a box t	o move it.		
	c. The player kicks t	he ball.	d. The goalkeepe	r stops the ball.		
	7 The energy produced	d when the electric hea	ter is turned on is the	energy.		
	a. electrical	b. sound	c. thermal	d. chemical		
	Fish breathe the disso	olved oxygen in water t	hrough			
	a. skin	<mark>b</mark> . lungs	c. gills	d. stomach		
	To calculate the veloc	ity of a body, we need t	o know			
	a. distance only		<mark>b</mark> . time only			
	c. energy and time		d. distance and ti	me		
	What are the two org	ans that represent the	central nervous syste	em?		
	a. Cerebellum and t	he vertebral column.	b. Spinal cord and	d the brain.		
	c. The sensory and n	notor system.	d. The brain and r	medulla oblongata.		

2 Complete the following sentences using the given words:

(respiratory – balanced - digestive - movements - structural - behavioral - 4 - 100 - unbalanced)

- 1 Bees are similar to humans in communicating through movements.
- 2 A body that travels a distance of 20 meters in 5 seconds, so its speed is 4 m/s.
- **3** When unbalanced forces act on a static body, it will move.
- 4 Migration of birds to warm places is an example of behavioral adaptation.
- 5 The system that digests food and obtains nutrients is digestive system.

3 Put (✓) or (X) in front of each of the following sentences:

- Communication between ants is through their sense of smell.
 Human has tapetum lucidum in his eye to help him see at night.
 The energy stored in the battery is called chemical potential energy.
 When the speed of a body decreases, its kinetic energy increases.
 The nervous system works separately from the senses.
- 4 Write the scientific term for each of the following sentences using the given words:

(Friction - Kinetic energy - Energy - Adaptation - Response time)

- 1 A distinctive feature of an organism that helps it to survive. (Adaptation)
- 2 The time taken by a body to receive information from the environment, and then processes it and responds to it.
 (Response time)
- 3 A force that arises between the surfaces of two bodies in contact and slows down their motion.
 (Friction)
- 4 The ability to do work. (Energy)
- 5 The energy possessed by the body due to its motion. (Kinetic energy)

5 Choose from column (B) what suits in column (A):

(A)	(B)
1 The visible form of energy that is transmitted in the form of waves isenergy.	(<mark>5</mark>) Language.
2depends on sound bounce in locating the prey.	(<mark>1</mark>) light.
3 energy is stored in food.	(4) unbalanced.
4 When a rocket is launched and is able to leave the planet, because it is affected by forces.	(3) Chemical.
5is a code in the form of sounds to convey information.	(<mark>2</mark>) Bat.

Model answer (2)

1

Choose the correct ans	wer:		
1 The eyes narrow inve	oluntarily to avoid sudd	en bright light, what	are the two organs
responsible for this?			
a. Nervous and mus	scular	b. Nervous and re	espiratory
c. Circulatory and r	nuscular	d. Circulatory an	d respiratory
2 Digestion of food be	egins in the mouth and	ends in the	
a. anus	b. stomach	c. small intestine	d. large intestine
3 helps th	ne human being to mair	ntain the ecological s	ystem.
a. eroding the soil		b. planting trees	
c. cutting trees		d. building new u	rban communities
Which of the following	ng cases represents the	transmission of a mo	essage from the sense
organs to the nervo	us system?		
a. When you take y	our hands off a hot ob	ject.	
b. When you screan	n after hitting the tabl	e.	
c. When your finger	bleeds after being inj	ured.	
d. When your finger	r touches the spines o	f an aloe vera plant	
6 A boat moves a distant	ance of 30 meters in a ti	me of 10 seconds, so	its speed ism/s.
a. 3	b. 10	c. 30	d. 300
6 Which statement exp	plains why you see your	reflection when you	ı look in the mirror?
a. The light is refrac	cted when it passes th	rough the mirror.	
b. The light is reflec	ted back from the mir	ror.	
c. The light is refrac	ted and bounced off t	he mirror.	
d. The light is reflec	ted when it passes thr	ough the mirror.	
7 The class students p	lay tug-of-war in the cou	urtyard, and there are	e ten students on both sides
of the rope, what inc	dicates that none of the	m moved?	
a. One team has mo	ore energy than the of	ther.	
b. One team has ha	lf the energy of the ot	her team.	
c. Both sides have e	qual and opposite for	ces in direction.	
d. Both teams have	unequal and opposite	forces in direction.	
8 You can determine t	he roughness of a soun	•	
a. pitch		b. type of sound	
c. echo		d. pattern and ty	pe of sound
Which of the following	ng allows light to pass t	hrough it?	
a. Wood.	b. Glass.	c. Metal.	d. Wall.
		tions that help an a	nimal to protect itself from
enemies are			
a. extinction	b. migration	c. reproduction	d. camouflage

2 Complete the following sentences using the given words:

(chemical - thermal - exhalation - inhalation - kinetic - position - echo - friction)

- 1 The dolphin can locate objects through echolocation by echo.
- 2 When objects fall downward, the energy stored in them is converted into kinetic energy.
- 3 The diaphragm muscle contracts and moves down during the process of inhalation.
- 4 When you ride your bike, the chemical energy which is stored in food inside your body is converted into kinetic energy.
- 5 The force that reduces the speed of a body and affects in the direction opposite to its motion is friction.

3 Put (√) or (X) in front of each of the following sentences:

- 1 Plants need long roots that extend deep into the soil to survive in the water scarcity environment. ()
- 2 The number of breathing times decreases when doing activities and making effort. (X)
- 3 As the force acting on a body increases, the distance it moves increases. (✓)
- Some insects can communicate by sending flashes of light.
- **5** We can see things around us as a result of refraction of light. (X)

4 Determine the type of adaptation whether "structural or "behavioral":

- 1 The buttress roots of some plants. (Structural adaptation)
- 2 The beaks of some birds are sharp and strong to tear the flesh of prey. (Structural adaptation)
- Some animals hide in burrows to avoid the intense summer heat. (Behavioral adaptation)
- 4 The presence of gills in fish to help them breathe in water. (Structural adaptation)
- 5 Frogs hibernate to avoid the extreme drop in temperatures. (Behavioral adaptation)

5 Give an example for each of the following:

1 Transparent material.

Glass

2 Technological communication systems.

Cell phone

3 A device that converts electric energy into light and heat energy.

Electric light bulb

4 An animal has the ability to turn its head in all directions.

Owl

9 Pushing force.

Kicking a ball

Model answer (3)

1 c	hoose the correct ansv	ver:		
	1 When gasoline is bur	ned, the stored chemic	al energy is released	in the form of
	a. smokes		b. carbon dioxide	gas
	c. spark		d. heat	
	What kind of surfaces	s scatter the light rando	omly?	
	a. Shiny	b. Rough	c. Smooth	d. Transparent.
	3 The antelope that live	es in the vast plains ada	pts by	
	a. thick fur that help	s to keep warm in wii	nter	
	b. long legs that help	o it to run quickly		
	c. bright colors help	him to attract the ot	her sex	
	d. a strong outer she	ell protects it		
	4 Humpback whales us	se singing for	•	
	a. warming		b. hiding from end	emies
	c. mating and feedir	ng	d. having fun with	n whales
	5 The organ that proce	sses and interprets info	rmation similar to a	computer is
	a. spinal cord	b. skin	c. brain	d. nerves
	6 The movement of a s	ailboat in the water by	the action of the air	isforce.
	a. pull	b. push	c. friction	d. gravity
	7 As the time taken to	travel a certain distance	e increases, the spee	d of the body
	a. increases	b. does not change	c. decreases	d. doubles
	8is the ser	nse that you use to ider	ntify the smell of a pe	erfume.
	a. Taste	b. Sight	c. Smell	d. Hearing
	The juices of the liver	and pancreas are pour	ed into	
	a. the stomach		b. the small intes	tine
	c. the large intestine	:	d. the mouth	
	The tapetum lucidum in the dark.	n is one of the	adaptations that	enable some animals to see
	a. structural	<mark>b</mark> . behavioral	c. (a and b)	d. no correct answer

2 Complete the following sentences using the given brackets:	
1 The echo sound feature depends on thesense.	(smelling – hearing)
2 The time taken to receive information from the environment and res	pond to it is
called (react	ion time - speed time)
3 Electric wires transmitenergy to homes and streets.	(chemical - electric)
4 The force that causes the fruits to fall from the tree downwards is the	•
	oushing force - gravity)
5 Fish use to extract dissolved oxygen in the water.	(lungs - gills)
3 Correct the underlined words:	
1 Cows have sharp teeth suitable for eating grass.	(flat)
When the body reaches its maximum height, it stores maximum kine	tic energy.
	(potential energy)
3 The bowl-like face of an owl is an example of <u>behavioral</u> adaptation.	(structural)
Sound is the visual form of energy that is transmitted in the form of v	vaves. (light)
5 When the body speed increases, its kinetic energy decreases.	(increases)
4 Choose from column (B) what suits in column (A):	
(A)	(B)
1 When an unbalanced force is applied to a static body.	(5) Diaphragm.
When the wall opposes a moving car and stops it.	(4) Nerves.
3 Wood is an	(<mark>3</mark>) Opaque material.
4 Carry messages from the brain and spinal cord to the rest of the body	(1) it starts to move.
6 A large muscle that helps in the inhalation and exhalation processes.	(2) it is a friction force.
5 Determine the type of the energy in each of the following cases:	
1 Energy stored in batteries.	(chemical energy)
2 The energy produced when the electric heater is turned on.	(heat energy)
3 Energy stored in a ball at the top of a ramp.	(potential energy)
4 The energy of a player while running.	(kinetic energy)

5 The energy generated when the radio is turned on.

(Sound energy)

Model answer (4)

1

Choose the correct answ	ver:		
1 Which of the following	g is a source of light?		
a. The moon.	b. The eyes.	c. The fire.	d. The mirror.
_ ,	n. Which device receive		e heard the sound of a car g signal that enabled Ramy
a. The circulatory sy	stem.	b. The excretory	system.
c. The muscular syst	em.	d. The nervous sy	stem.
How does this ch	oox and Ezz comes to he lange the force and the e the force or the dist	distance moved by ance.	the box?
	es and distance decred		
c. The force and dist4 The system responsib			ses, its distance increases. y with nutrients is
a. respiratoryBats use their sense of	b. digestive ofto reach	c. excretory their prey and avoid	d. nervous hitting objects
a. sight	b. smell	c. hearing	d. taste
6 Which of the follow the leaves of trees?	ing helps reptiles, suc	h as the panther cl	nameleon, to hide among
a. Colored scales.	b. Brown fur.	c. Short legs.	d. Golden fur.
7 The energy stored in	a compressed spring is	considered	energy.
a. chemical8 The unit that measure	b. kinetic es speed is	c. potential	d. electric
a. seconds/meter9 What happens to the	b. hour/kilometer kinetic energy when yo		d. meter/kilometer
a. It converts to sour	nd and heat energy	b.It converts to se	olar and potential energy
c. Some of the energ	y is lost and some of	it turns into sound	energy
33	st and some energy to the common ways of co		energy een humans and animals.
a. Mobile phone	b. Paintings	c. Flashes	d. Writing

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2 Comple	ete the	following	sentences	using the	given	brackets:
----------	---------	-----------	-----------	-----------	-------	-----------

1 Thein the mouth moistens the food to facilitate its digestion and swallowing.

(tongue - teeth)

2 The...... materials transmit light through them. (transparent – opaque)

3 The gravitational force is the force ofand its direction is always down towards the earth.

(pull – push)

 \P A car that travels 80 km in two hours is moving at a speed of _____ km / h. (40 – 20)

5 The alveoli in are surrounded by a network of blood vessels through which gases are exchanged between blood and air. (trachea -two lungs)

3 write True or False:

1 When animals dig tunnels it is a form of structural adaptation. (False)

Meat-eaters animals have long digestive systems. (false)

3 The body's potential energy increases as it rises above the Earth's surface. (True)

4 Energy transformations don't occur when food is cooked.
(False)

5 Objects move a great distance when pushed with great force. (True)

4 Write the scientific terms using the given words:

(speed – potential energy - reflexes - communication system – structural adaptation)

- 1 A change that occurs within the structure of the living organisms' bodies. (Structural adaptation)
- 2 A group of devices work together to transfer information from one place to another.

(Communication system)

3 The distance traveled per unit time.

(Speed)

4 The stored energy inside the body.

(potential energy)

5 Messages that the nervous system sends quickly and you cannot control them.

(Reflexes)

6 Choose from column (B) the sensory information that suits each sense organ in column (A):

(A)	(B)
1 The hand	(2) Light coming from an open window.
2 The eyes	(<mark>5</mark>) The bad smell.
3 The tongue	(1) Heat from a hot stove.
4 The ears	(3) Sour lemon taste.
5 The nose	(4) Noise coming from the car loudspeaker.

Model answer (5)

1	Choose	the	correct	answer:
ш	CITOOSC	-	COLLECT	ulijveti.

- 1 What is the energy transformation when riding a bike?
 - a. Thermal energy converts into potential energy.
 - b. Chemical energy converts into kinetic energy.
 - c. Solar energy converts into chemical energy.
 - d. Kinetic energy converts into nuclear energy.
- Which of the following can store energy?
 - a. Battery.
- b. Wire.
- c. Plastic.
- d. electric lamp.
- What is the necessary mathematical relationship to calculate the velocity?
 - a. distance ÷ time
- **b.** time ÷ distance
- c. mass ÷ time
- d. time ÷ mass
- 4 The ----leaves help plants absorb sunlight.
 - a. small
- b. broad
- c. triangular
- d. spiny
- 5 The diaphragm muscle contracts and moves downwards during the process.
 - a. inhalation
- b. exhalation
- c. digestion
- d. feeding
- - a. sight
- b. smell
- c. hearing
- d. taste
- 7 Which of the following allows light to pass through it?
 - a. Wood.
- b. Glass.
- c. Metal.
- d. Wall.
- 8 The opposite figure represents force.
 - a. pushing

b. pulling

c. gravity

- d. friction
- Each of the following represents kinetic energy except



- a. vibration of particles of the substance during heating
- b. the movement of sound or light waves in the air
- c. the movement of electrons inside a wire
- d. a ball stuck to the top of a tree
- - a. light
- b. sound
- c. smell
- d. movement

2 Complete the following sentences using the given brackets:

1 The velocity of a body increases when the time taken to cover a certain distance

(increases - decreases)

3 The blood transportsfrom the lungs to all the cells of the body.

(oxygen gas - carbon dioxide gas)

4 The amount of energy required to move a body through the force acting on it is known as ______. (work - force)

6 When you knock on the door, the energy changes into energy.

(kinetic - sound / kinetic - potential)

3 Correct the underlined words:

1 The spinal cord is the main control center in the human body. (brain)

2 Fish breathe the dissolved oxygen in water through the skin. (gills)

3 One of the negative effects of water pollution on humans is chest disease. (air)

4 A ball that rolls on a ramp gradually its potential energy increases as it falls. (kinetic)

5 When balanced forces act on a static body, it moves. (unbalanced)

4 Choose from column (B) what suits in column (A):

(A)	(B)
1 A pattern has meaning	(2) The friction force
A force arises between two touching surfaces.	(<mark>5</mark>) Its speed increases
3 The light property helps us to see our image in mirror	(4) Chemical energy
4 The stored energy in gasoline	(<mark>3</mark>) Light reflection
S When the applied force on object increases ,	(1) The code

5 Classify the following into (structural or behavioral) adaptation:

1 The presence of sharp thorns in some desert plants. (structural adaptation)

2 The varied diet property in some animals. (behavioral adaptation)

3 The activity of bats at night to search for food. (behavioral adaptation)

4) Sharp teeth in predators. (structural adaptation)

5 The eyes of the panther chameleon move in different directions. (structural adaptation)

First Semester Exams

Exam (1)

1 A) Choose the correct answer from the brackets:

1. The change in the position of a body from one place to another with the passage of time is

(energy - force - motion - gravity)

2. The bat sleeps in a/an position.

(upright - upside down - inclined - flying)

3. The speed of a toy car that travels 10 meters in two seconds is the speed of the toy car that travels 20 meters in 5 seconds.

(less than - greater than - equal to - none of the previous)

4. From the examples of transparent objects is/are

(water - air - glass - all the previous)

B) What is meant by ...?

- 1. Satellite.
- 2. Countershading.

Answers 1:

- A) 1. motion
 - 3. greater than

- 2. upside down
- 4. all the previous
- B) 1. Satellite: an artificial or natural object that revolves around another object in space.
- 2. Countershading: using the camouflage strategy by the bull shark to sneak up on preys.

2	A)	Comp	lete	the	fol	lowin	q:
							J

1. We can stop the car by the because of the force of

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- 2. The supporting roots in kapok trees are adaptation.
- 3. The head of the cheetah is bent towards its shoulder, making it reduce the
- 4. The leg of the Egyptian jerboa is similar to the leg of a so it can jump.

B) What happens in the following cases...?

- 1. When two cars are moving at the same speed and in the same direction.
- 2. When the ear hears the sound of a bird.

3 A) Put a () in front of the correct statement and a () in front of the wrong statement:

- 1. The balanced forces acting on a body change its state.
- 2. Sensory receptors perceive the influences of the external environment.
- 3. The kinetic energy is directly proportional to the square of the car's speed.
- 4. Ants communicate with their peers using sound.

Answers 2:

- A) 1. brakes, friction 2. structural 3. air resistance 4. kangaroo
- B) 1. They both seem at rest to each other.
 - 2. The ear receives the sound wave and then sends a message to the brain to perceive the sound and then it sends a signal to the body to know what to do.

Answers (3):

A) 1. X 2. X 3. ✓ 4. X

- 1. One of the two teams won the tug-of-war game.
- 2. Arctic fox has thick fur.

4 A) Correct the underlined words in the following statements:

- 1. One of the advantages of a solar car is its need for fuel.
- 2. Under the skin of the polar bear there is a layer of protein that warms its body.
- 3. Pulling a moving car with a rope to another stationary car is an example of stopping by pushing.
- 4. The light energy is transmitted in the air in the form of successive batches.

B) Mention the importance of:

- 1. Balanced and unbalanced forces.
- 2. The sense of hearing in the jerboa.

Answers (3):

- B) 1. Because the forces acting on the rope are unbalanced.
 - 2. To protect it from the extreme cold.

Answers 4:

A) 1. no need

2 fats

3. movement

- 4. waves
- B) 1. When we want to keep the body at rest, we use balanced forces on it. When we want to make the body move, we use unbalanced forces on it.
 - 2. Receiving sounds produced from snakes to be able to escape.

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Exam (2)

1 A) Choose the correct answer from the brackets:

1. The tarsier monkey can see clearly in the dark because it

(has no tail - has 2 big eyes - can rotate its head by 180 degrees

- the 2 last choices)

(the double - three times - four times - none of the previous answers)

3. The bat depends on to locate the prey.

(vision - echo - touch - smell)

4. The ability to do work is

(motion - gravity - force - energy)

B) What is meant by ...?

- 1. Neural message.
- 2. Cheetah.

Answers 1:

- A) 1. 2 big eyes
- 2. none of the previous answers
- 3. echo
- 4. energy
- B) 1. Neural message: is a nerve impulse that travels rapidly through the nervous system through the nerves.
- Cheetah: is a predatory animal whose speed is greater than the speed of humans, and it is the fastest land animal on the Earth surface.

- 1. The nervous system of mammals consists of the brain, and
- 2. A body changes its state when the forces are
- 3. By increasing the pressure on the gas pedal of a moving car,increases.
- 4. Light reflection has two types: reflection and reflection.

B) What happens in the following cases...?

- 1. When plants and animals are buried underground for a long time.
- 2. If the leaves of acacia trees do not secrete poisons.

3 A) Put a (✓) in front of the correct statement and a (X) in front of the wrong statement:

- 1. The length and strength of the roots of mangroves is a structural adaptation.
- 2. Owls' ears amplify the sounds.
- 3. Fast driving is dangerous.
- 4. The lower the energy, the faster the body and the higher its kinetic energy.

Answers 2:

- A) 1. spinal cord, nerves
- 2. unbalanced
- 3. speed
- 4. regular, irregular

- B) 1. Petroleum is formed.
 - 2. The herbivorous animals feed on it.

Answers (3):

A) 1. 🗸

- 2. ✓
- 3. ✓
- 4. X

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B) State the scientific reason for each of the following:

1. A snake can hunt in the dark despite not seeing well.

4 A) Correct the underlined words in the following statements:

- 1. Objects on inclined surfaces move at lower speeds.
- 2. The response time of the jerboa occurs in less than a fraction of an hour.
- 3. Energy can be seen.
- 4. The cornea in the human eye focuses light onto the retina.

B) Mention the importance of:

- 1. The solar car.
- 2. Rotation of the owl's head in all directions.

Answers (3):

B) 1. Because it depends on feeling the heat of the prey through a part in its face.

Answers 4:

A) 1. higher

2. a second

3. cannot

4. lens

- B) 1. It operates without energy consumption and does not require fuel or charging.
 - 2. To identify small and far movements and search for preys.

Exam (3)

1 A) Choose the correct answer from the brackets:

(decreases - increases - remains constant - increases by a small amount)

2. The fennec fox has large ears that work on

(cooling its body down - increasing its sense of hearing

- protecting it from the sun the first and second choices)

(taste - vision - hearing - smell)

4. The main types of force are forces.

(pull and push - pull and pull - light and strong - visible and tangible)

B) What is meant by...?

- 1. Response time.
- 2. Work.

Answers 1:

- A) 1. decreases
- 2. the first and second choices
- 3. smell
- 4. pull and push
- B) 1. Response time: is the time period from the moment the stimulus is received until it is perceived by the brain and the appropriate response is given.
 - 2. Work: a force acting on an object to move it a certain distance.

2 A) Complete the following:

- 2. Vision defects can be treated by wearing or surgery.
- 3. Potential energy increases as the height of the body above the Earth's surface.
- 4. A blind cane transforms the echoed sound waves into

B) What happens in the following cases...?

- 1. When the car is running.
- 2. When ant soldiers release a strong smell.

3 A) Put a () in front of the correct statement and a (X) in front of the wrong statement:

- 1. The eye sends a signal to the brain when seeing to interpret information.
- 2. Sound energy is a type of kinetic energy.
- 3. Bats live in caves where there is light.
- 4. The body may be at rest and then move due to unbalanced forces.

Answers 2:

A) 1. speed

2. medical glasses, laser

3. increases

- 4. vibrations
- B) 1. We get kinetic energy in the form of mechanical, sound and thermal energy.
 - 2. To alert the scout ants when there is a shortage of food.

Answers (3):

A) 1. ✓

2. 🗸

3. **X**

4. 🗸

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B) State the scientific reason for each of the following:

- 1. The difference in the speed of the ball on an inclined plane despite the fact that the plane or its angle of inclination did not change with good control of the stopwatch.
- 2. The glow of the eyes of the cat fish at night.

4 A) Correct the underlined words in the following statements:

- 1. The satellite continues to rotate at the same speed in its orbit because the force acting on it is balanced.
- 2. The idea of the car brakes depends on increasing the power of gasoline when you press it.
- 3. Agama lizard and tiger chameleon lizard are cold-blooded rodents.
- 4. There is a certain part in the tail of the snake that can sense heat.

B) Mention the importance of:

- 1. The steering wheel of the car.
- 2. The roots of the mangrove trees.

Answers (3):

- B) 1. Because of the ball pulling.
 - 2. Because there is a transparent membrane behind the retina called the Tapetum Lucidum, it reflects light that is not detected by the retina.

Answers 4:

- A) 1. vanished
- 2. friction
- 3. reptiles
- 4. face
- B) 1. The steering wheel changes the direction of the car.
 - 2. To help the plant to adapt with the water waves.

Exam (4)

1 A) Choose the correct answer from the brackets:

1. Energy can be described by all of the following, except that it can be

(stored - transformed - felt - seen)

(the availability of food - the abundance of water- the habitat destruction - providing shelter)

3. From the sensory receptors in humans is/are

(ears and nose - vision and hearing - eyes and nose

- first and third choices)

B) What is meant by...?

- 1. Potential energy.
- 2. Opaque objects.

Answers 1:

- A) 1. seen
 - 2. the habitat destruction

- 3. first and third choices
- B) 1. Potential energy: is a type of energy stored in the body.
 - 2. Opaque objects: they are objects that do not allow light to pass through them, so it forms a shadow.

2 A) Complete the following:

1. provides the car with the required energy.

2. The human body gets the necessary for the work of the body systems.

B) What happens in the following cases...?

- 1. When the body absorbs the light that falls on it completely.
- 2. When a soccer ball is kicked.

3 A) Put a (✓) in front of the correct statement and a (✗) in front of the wrong statement:

- 1. Amphibians, such as frogs, live in moist environments.
- 2. The energy of a child sitting on a slide is converted into kinetic energy when he slides on it.
- 3. The pupil of the nocturnal animal is narrow to enable it to see well in the dark.

Answers 2:

A) 1. Fuel

2. energy

- 3. near, far away
- B) 1. A shadow is formed and then the body will not be seen.
 - 2. Its speed, direction, or both change.

Answers (3):

A) 1. 🗸

- 2. 🗸
- 3. **X**

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B) State the scientific reason for each of the following:

- 1. The kinetic energy is called "energy of motion".
- 2. The wings of the firefly can light up.

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4 A) Correct the underlined words in the following statements:

- 1. The energy stored in any body is kinetic energy.
- 2. When the speed of an object doubles, its kinetic energy doubles.
- 3. Sinai agama lizards feed mainly on small reptiles.
- 4. Humpback whales produce random sounds to communicate with each other.

B) Mention the importance of:

- 1. The inclined surface.
- 2. The dog's teeth.

Answers (3):

- B) 1. Because it is an energy that is gained as a result of body motion.
 - 2. Due to the occurrence of a group of chemical reactions inside its body.

Answers 4:

- A) 1. potential 2. increases to its four times
 - 3. insects 4. range of notes
- B) 1. Changing the energy of an object moving on it by changing its angle of inclination.
 - 2. They are sharp enough to shred meat.

El-Moasser Final Examinations

Model Exam 1

(A) Choose the correct answer:			
1. The roots of kanok tree den't	Acceptation of the second		
 The roots of kapok tree don't grow the soil contains less water. 	deeply in the soil, because		
of italia less water	h the soil contains		
c. the climate is very cold. 2. The system responsible for	d. the climate is very hot.		
Joseph I Copulising for moving		h ac	
5 di "		11 as	
D. respirator	-		
3. Songs of humpback whales in wint	ter are characterized by sock at the		
2 it is f	or the	follo	wir
a. it is for mating season.	b. moving better through cold water		
c. having soft sounds.	d. having low-planed sounds.	er.	
When you move something toward a. pushing force, b. light energy	You this reason and sounds.		
"Sin Chelly	Cardina com		
(B) Give a reason for the following	c pulling force. sound energy.		
	0,		
Seatbelts in cars are very important			
Seatbelts in cars are very importan			
Seatbelts in cars are very importan			
(A) Put (V) or (X):	î.	***********	*****
(A) Put (V) or (X): 1. Digestion process begins in start	Σ.	•••••	*****
(A) Put (V) or (X): 1. Digestion process begins in stomac 2. Some animals have extra abilition to	ch with the help of saliva.	•••••	*****
(A) Put (V) or (X): 1. Digestion process begins in stomac 2. Some animals have extra abilities the abilities are called super sensors as	ch with the help of saliva.	•••••	
(A) Put (V) or (X): 1. Digestion process begins in stomace. 2. Some animals have extra abilities to abilities are called super sensory ace. 3. Cats have excellent night vision with account and account accounts.	ch with the help of saliva. hat humans do not have, and these	•••••)
(A) Put (V) or (X): 1. Digestion process begins in stomace. 2. Some animals have extra abilities to abilities are called super sensory ace. 3. Cats have excellent night vision with account and account accounts.	ch with the help of saliva. hat humans do not have, and these	•••••))
 (A) Put (/) or (x): 1. Digestion process begins in stomac 2. Some animals have extra abilities to abilities are called super sensory ac 3. Cats have excellent night vision, who will the super sensory in the super sensory ac 4. The bus that covers 60 kilometers in the super sensory in the super sensory ac 	ch with the help of saliva. hat humans do not have, and these	•••••))
 (A) Put (/) or (x): 1. Digestion process begins in stomac 2. Some animals have extra abilities to abilities are called super sensory ac 3. Cats have excellent night vision, when the distribution of the covers 60 kilometers in the covers 60 kilometers 60 kilometers 60 kilometers 60 kilometers 60 kilometers 60 kilometers 60 kilome	ch with the help of saliva. hat humans do not have, and these daptations. hile snakes and bats are not. n 1 hour has a speed = 60 m/sec.	•••••)
 (A) Put (/) or (x): 1. Digestion process begins in stomac 2. Some animals have extra abilities to abilities are called super sensory ac 3. Cats have excellent night vision, when the super sensor in the super se	ch with the help of saliva. hat humans do not have, and these daptations. hile snakes and bats are not. n 1 hour has a speed = 60 m/sec.	•••••))
 (A) Put (/) or (X): 1. Digestion process begins in stomace 2. Some animals have extra abilities to abilities are called super sensory ace 3. Cats have excellent night vision, where the super sensor is to the super sensor in the su	ch with the help of saliva. hat humans do not have, and these daptations. hile snakes and bats are not. n 1 hour has a speed = 60 m/sec. If its speed increases.	•••••)
 (A) Put (/) or (x): 1. Digestion process begins in stomace 2. Some animals have extra abilities to abilities are called super sensory ace 3. Cats have excellent night vision, where the super sensor is to the super sensor in the su	ch with the help of saliva. hat humans do not have, and these daptations. hile snakes and bats are not. n 1 hour has a speed = 60 m/sec. If its speed increases.	•••••)
(A) Put (V) or (X): 1. Digestion process begins in stomace. 2. Some animals have extra abilities to abilities are called super sensory ace. 3. Cats have excellent night vision, where the super sensor in the substant covers 60 kilometers in the substant covers 60 kilometers in the substant covers of a moving car in the substant covers of a moving car in the substant covers of water in popular the pollution rate of water in popular the substant covers of water in popular the pollution rate of water in popular the substant covers of water in popular the pollution rate of water in pollution rat	ch with the help of saliva. hat humans do not have, and these daptations. hile snakes and bats are not. n 1 hour has a speed = 60 m/sec. If its speed increases.	•••••)
(A) Put (V) or (X): 1. Digestion process begins in stomace. 2. Some animals have extra abilities to abilities are called super sensory ace. 3. Cats have excellent night vision, where the bust hat covers 60 kilometers in (B) What happens to? The kinetic energy of a moving car in the complete the following sentences. 1. As the pollution rate of water in pone amphibians	ch with the help of saliva. hat humans do not have, and these daptations. hile snakes and bats are not. n 1 hour has a speed = 60 m/sec. If its speed increases.	extra (()
(A) Put (V) or (X): 1. Digestion process begins in stomace. 2. Some animals have extra abilities to abilities are called super sensory ace. 3. Cats have excellent night vision, where the super sensor in the substant covers 60 kilometers in the substant covers 60 kilometers in the substant covers of a moving car in the substant covers of a moving car in the substant covers of water in popular the pollution rate of water in popular the substant covers of water in popular the pollution rate of water in popular the substant covers of water in popular the pollution rate of water in pollution rat	ch with the help of saliva. hat humans do not have, and these daptations. hile snakes and bats are not. n 1 hour has a speed = 60 m/sec. If its speed increases.	extra (())

aenergy that you can hear					
force :	he table below according to the needed				
. Typing on a keyboard.	2. Lifting a bag.				
Moving a chair away from you. 4. Kicking a football.					
5. Closing the door from inside a roon	m.				
6. Opening the door of a refregirator.	t Tajilaking licht aking all hömkungt				
Pulling force	Pushing force				
Vire statut					
	1.6 Moh 25 vorti 163 White Ir				
	e (- 2 and) A to at the early and the early				
	7 3 m 1 - 250 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
(A) Write the scientific term of each	of the following :				
1. The part of the kapok tree which is 2. It delivers messages between the s	supported by the buttress roots. (spinal cord and different body				
 The part of the kapok tree which is It delivers messages between the sorgans. 	supported by the buttress roots. (spinal cord and different body (
	supported by the buttress roots. (spinal cord and different body (
 The part of the kapok tree which is It delivers messages between the sorgans. It is the force that is exerted when 	supported by the buttress roots. (spinal cord and different body (objects rub against each other.(
 The part of the kapok tree which is It delivers messages between the sorgans. It is the force that is exerted when the sorgans are the sorgans are the sorgans. One of the measuring units of time Find the speed of a runner, if you in 30 seconds. 	supported by the buttress roots. (spinal cord and different body (objects rub against each other. (
 The part of the kapok tree which is It delivers messages between the sorgans. It is the force that is exerted when easuring units of time One of the measuring units of time Find the speed of a runner, if you in 30 seconds. 	supported by the buttress roots. (spinal cord and different body (objects rub against each other.(

	4.	Most animals can hunt whenwhile bats can hunt when	energy bounces off a prey in energy bounces off a prey into t	to their eyes, heir ears.
	(B	Give a reason for the following:		
		When your friend catches a ball that the ball is stopped.		
2	(4	A) Choose the correct answer:		
	1.	Displaying light is a type of commun	nication that is found in	
		a. plants only.	b. plants and humans.	
		c. animals and humans.	d. animals only.	
	2.	The speed of a toy car moves down but its speed decreases by increase		ng its,
		a. friction force – mass.	b. mass – friction force.	
		c. temperature – mass.	d. mass – temperature.	
	3.	Human can help restoring ecosyste except	em by all of the following activiti	ies,
		a. replanting the cleared forests.	b. removing air and water pollu	utants.
		c. producing more factories exhaus	ts.	
		d. preserving existed plants and an	imals.	
	4.	When a car moves up a hill, this ha	ppens due to the effect of	
		a. gravity force. b. balanced force.	c. sound energy. d. kinetic en	iergy.
	(E	3) What happens if ?		
	• **	Light falls on a mirror that has few of	cracks.	
3		A) Correct the underlined words :		
		Both factories exhausts and floods	produce smog, that causes air	pollution
			, and a substitution of the substitution of th	()
	2.	The energy that is produced due to parts of Newton's cradle, is the sou		
	3.	Hearing is one of the weak senses		()

	nto opaque objects and transparent objects : Vater – Metal – Lenses"
A STATE OF THE STA	
Opaque objects	Transparent objects
A) Write the scientific term of each	of the following:
. A group of ants which is responsit	ole for sending smelly messages when there
is a shortage of food.	and the state of t
	tar of the Earth
. It is the force that pulls objects to	ward the center of the Earth.
. It is the force that pulls objects to	ward the center of the Earth. (nts the loss of water in the pine tree.
. It is the force that pulls objects too . A structural adaptation that preve	nts the loss of water in the pine tree.
. A structural adaptation that preve	nts the loss of water in the pine tree.
A structural adaptation that preve The organ used to differentiate be	nts the loss of water in the pine tree. (etween different about (
A structural adaptation that preve The organ used to differentiate be	nts the loss of water in the pine tree.
. A structural adaptation that preve	nts the loss of water in the pine tree. (etween different about (
. A structural adaptation that preve	nts the loss of water in the pine tree. (etween different absilfs. (
. A structural adaptation that preve . The organ used to differentiate be B) A truck travels a distance of 16	nts the loss of water in the pine tree. (etween different about (
. A structural adaptation that preve . The organ used to differentiate be B) A truck travels a distance of 16	nts the loss of water in the pine tree. (etween different absilfs. (
. A structural adaptation that prevention. The organ used to differentiate between the control of 16	etween different absilts. (
A structural adaptation that prevention. The organ used to differentiate be B) A truck travels a distance of 16 Choose the correct answer:	etween different absilts (
A structural adaptation that prevention. The organ used to differentiate be B) A truck travels a distance of 16 (A) Choose the correct answer: 1. Which of the following sentence the correct toward the ground sentence the correct answer in the correct answer in the correct toward the ground sentence the correct answer in the cor	etween different absing (
A structural adaptation that prevention. The organ used to differentiate be B) A truck travels a distance of 16 (A) Choose the correct answer: 1. Which of the following sentence a. It pulls objects toward the ground the	etween different absilts (
A structural adaptation that prevention. The organ used to differentiate between the correct answer: (A) Choose the correct answer: 1. Which of the following sentence a. It pulls objects toward the group of stops the more than a stops the more down or stops the more down o	etween different actions Find its speed. Secribes the friction force ?
A structural adaptation that preverse. The organ used to differentiate be a struck travels a distance of 16 consecution. (A) Choose the correct answer: 1. Which of the following sentence a. It pulls objects toward the group b. It pushes objects away from the c. It slows down or stops the more	etween different actions Find its speed. Secribes the friction force ?

	The energy that is stored	in an object due to its position, is known	own as
	a. kinetic energy.	b. potential energy.	
	c. electrical energy.	d. chemical energy.	
		ng towards you, the sensory recepto	rs to get
	a. in the ears send a signa	al to the brain first	
	b. in the eyes send a sign	al to the brain first	
	c. in the eyes send a signa	al to sensory receptors in the ears	
	d. in the ears send a signa	al to sensory receptors in the eyes	
	(B) Give a reason for the fol	lowing :	
	Mirror can reflect the light	better than a painted surface.	
		•••••	
2	(A) Put (V) or (X):	inn se iorendoméen e rheim bro	
		v car pushed as a flat push so is some	
		y car pushed on a flat aurface is equa pushed with the name force down a ra	
		een pulling and pushing forces is the	150
	of the force.		()
	Sharp spines are adaptation them.	on of different plants to prevent anima	als from eating
		from the Earth's surface increases, its	()
	energy increases.	nom the Eurine surface mercases, its	s potential ()
	1 6 6 1 2	hat moves a distance of 240 Kilomete	ore in 3 hours
	(b) 1 mg and open of a car a	Tax moves a distance of 240 Knomete	ers in 5 nours.
3	(A) Write the scientific term	of each of the following :	
2		se, ears, tongue and skin, and they red	celve
		undings and send it to the brain.	()
		bags, and allow them to deflate fast a	
	collision.	1 20 00 F - 0 g 130 0	()
		cts light in different directions when	
	the light falls on it.	a. a Cheannan an ear ear ann ann an	()
	A large muscle that contract out.	cts during breathing in and relaxes du	ring breathing
	Service of the form of the service o		()

3) Classify the following living organisms according to their habitats into	
in deserts and organisms live in forests in the table help	OW.
(Starred against IIZard - Panthor champles - Farmer for Karal to	-
Palm tree – Barbary fig plant).	

Organisms live in deserts	Organisms live in forests

(A) Complete the following sentence	es	:
-------------------------------------	----	---

- During swallowing, the food passes from the throat to the then to the inside your digestive system.
- 2. During inhalation, air travels down from your throat to your lungs through
- (B) Compare between:

Points of the reserver	Inhalation asw of	Exhalation
1. Diaphragm movement :		
2. Size of chest cavity :		
3. The air is rich in :	gas.	gas.

Model Exam 4

1	(A) Write	the scientific	term of	each of	the following :
---	-----------	----------------	---------	---------	-----------------

(r) Times and sales	
 A property that helps animals blend in with their surrounding 	environment.
	()
A system that works inside the human body such that it kee	ps the human away
from danger.	()
3. The energy that is used to operate television.	()
4. The force that makes an object moves a distance.	()
(B) Give one example for the following:	
One of the sources of light which gives out its own light.	()
One of the sources	

(A) Choose the correct answer:	
1. The notential aparay of an obj	ect depends on
a. its mass only.	
b. its height from the Earth's s	urface only.
c. its mass and its height from	the Earth's surface.
d. its temperature.	the Latting danage.
	havioral adaptation in the panther chameleon.
a. Puffing up its body during d	
b. Each eye can move indepe	
c. V-shaped feet	d. Long sticky tongue
3. From the structural adaptation	of water lily plant is that
a. it has long roots.	b. it has sharp spines.
c. it has tiny leaves.	d. it has wide leaves.
All of the following are example	
a. a running person.	b. a ball travelling through the air.
c. a flying bird.	d. a sleeping dog.
(B) What happens if?	received a page of the
	materials to waterways and soil in an ecosystem.
	and son in an ecosystem.
(A) Correct the underlined word	
The <u>balanced</u> forces cause the When you turn on a radio, the	e object to move.
2. When you turn on a radio, the	electrical energy changes into light energy.
3. Potential energy depends on the	()
4. The system that works with the	e eyes of living organisms for seeing objects is
the digestive system.	
(B) A deer runs a distance of 200	() meters in 5 seconds. Calculate its speed.
	meters in 3 seconds. Calculate its speed.
(A) Complete the following sent	ences :
1. On hearing an alarm ring, the s	sensory receptors that are found in the
what to do to avoid danger.	work of nerves to the which determines
	to communicate with each other, while bees
and a special	ualices to communicate with seek at
3. If the kinetic energy of a moving	g body decreases, its speed will

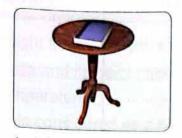
(B) Compare between:

Polar bear	Forest bear
P	

	Mod	el Exam 5			
1 (A) Choose the co	rrect answer:				
		passengers move	onungana Tabahar Kasal		
a. backward.		c. upward.			
2. Reading and wi	iting are commo	n types of commun	ication in wo	orld.	
a. humans		c. birds			
3. Bears that live i	n forests have fu	ur that of po	olar bears.		
a. whiter than		b darker than			
c. similar to		brighter than			
4. When the rolls:	orașiei alcue d	is energy of motion	35.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.		
a. doesn't chara	ge	e increases.			
c. decreases.		d. becomes zer	o.		
(B) What happens	if ?				
		esn't exceed 3 mete	ers downward.		
			ANACH TELESCO		

. <u></u>		glidary, le care a la	laur la metre ettern	n.L. i.E.	
(A) Put (✓) or (X)					
1. At night, cats e	yes look like sma	all lighted lamps.		()
2. The sandy-cold	ored fur of caraca	al helps it blend in v	vith snow in polar		
environment.				()
		leflate as fast as the		()
4. The stopped of	oject can't move	until a force acts or	ı it.	()

(B) Look at the following pictures, then choose if the forces are "balanced" or "unbalanced":



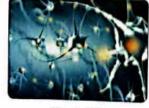
1. A book on a table (Balanced – Unbalanced)



2. A seesaw (Balanced – Unbalanced)

_		
3	(A) Write the scientific term of each of the following :	
	 A type of foxes that has sandy-colored fur to adapt its desert environment. 	Territoria
	2. It is the force that pulls objects toward the center of Earth.	owner!!!
	 Safety equipment used to provide soft cushion, when it is inflated automatically with a gas during collision of cars. 	d ()
	 A plant lives in salt water habitat and has long, strong roots to rethe water waves. 	
	(B) Give a reason for the following :	(
	Branches of acacia tree are gather on the top of its trunk.	
	ment some top of its trulik.	
	Throm in the second relation relations and in the	Office W. A
4	(A) Correct the stadeolinest we as a	T. Sub
	1. Keeping the position of an object relative to a fixed point represer	nts motion
		()
	2. Moving an object towards you represents a pushing force.	i i
	3. Seatbelts absorb the energy of the car due to its collision and get	s inflated.
		<i>t y</i>
	4. Under the effect of pushing force of gravity, anything falls down to	the ground.
		(
	(B) Look at the following figures, then complete the following sent	ences :





Part (2)



Part (3)

1. These body parts belong to the s	evetom
2. When you touch a freezing have	yolein.
2. When you touch a freezing bottle of was	ater, part number in your hand
sends a message through part numbe	r to reach part number telling
you that this bottle is very cold.	
	and the street of the beautiful the beautiful to
Model Ex	am 6
(A) Choose the correct answer:	and the many countries of the state of the s
All the following properties are consider	ared as structural adaptations in the
panther chameleon, except	sied as structural adaptations in the
a. each eye can move independently.	
b. openning its mouth wide at danger.	
	long sticky tongue.
2. When an object is in motion, this mean	35//
	size d. position
4. If there is nothing to stop the moveme a. stay in motion. b. c. stop after few minutes. d.	stop after few seconds.
. I have the ability to make	e camouflage adaptation.
(A) Put (V) 1. Unbalanced forces keep an object in i	its place without moving. (
 Unbalanced forces keep an object in it. The moving objects only have energy. 	, while the objects that don't move
2. The moving objects any	worm up the warm blood
have no energy. 3. In penguin's feet, the cold blood vesses	els can warm up the transfer
vessels.	source.
	table below '
4. The Moon is not considered as 1. (B) Classify the following animals in the (Fishing cat – Do	table below .
(Fishing cat – Do	olphin – Tarsier – Bat)
	A simple have super hearing sense
	Animals have super hearing sense
	Animais navo cup
Animals have super sight sense	Animais navo ou

Final Exa

3	 (A) Write the scientific term of each of the following: 1. An organ in the human digestive system that has tiny blood vess the nutrients through its walls. 2. A feature in the bull shark, in which the upper surface of its body is darker than its lower surface. 	
	 The ability to do work or cause a change. The organ used to differentiate between the taste of different types of food. 	()
	(B) Amir rides his bike and covers a distance of 150 meters in 5 se Calculate the speed of the bike.	conds.
4	(A) Correct the underlined words :	
	 Two objects have the same mass and stopped at the same heigh have the same kinetic energy. 	nt, ()
	 A car battery stores a form of kinetic energy known as chemical energy. 	()
	3. As the object moves faster, its potential energy increases.	()
	4. During hitting a ball the cricket bat transfers its light energy to the ball.	()
	(B) Look at the following figures that represent the respiration produced answer the questions :	ocess, then
	1. Which figure represents inhalation. ()	
	2. Which figure represents	201
	exhalation. ()	
	3. In figure (a) muscle	
	contracts and the size of chest	
	4. The air that comes out in	
	figure (b) is rich in gas.	•
	Figure (a)	Figure (b)

Model Exam	(ii) Change It this collario (A
(A) Choose the correct answer:	ang panganganyat
1. Camouflage means that the animal	
 can be seen easily among its surrounding. 	
b. is hard to be seen among its surrounding.	
c. is easily to be seen by its preys.	
d. can be seen easily by its predators.	
2. The five senses of humans and animals include)
a. sight, hearing, touch, smell, and movement.	
b. sight, movement, taste, touch, and smell.	
c. taste, touch, movement, hearing, and smell.	
d. sight, hearing, taste, smell, and touch.	
3. When an object moves down a ramp, its stored	energy
a. increases.	
b. doesn't change.	
b. doesn't change.c. changes to a less active form of energy	
d. changes to a more active form of strengt	cat to catch a prey at night,
d. changes to a more active joint in a state. 4. The structural adaptation that helps the fishing	
· then	
a. it can feel the heat of prey's body.	
b. it can hide inside the forest.	
c. it can digest its prey easily.	
d. it has excellent night vision.	Manuton's cradle during
d. it has excellent man. (B) What happens if? Friction occurs between the string and the other (ac	cording to the change of energy)
Friction occurs between (ac	colding to we
collision.	Leave the second
tonces :	capani nulimon d
(A) Complete the following sentences: 1. Among animals that can live in polar environments and it properties by	ent areand
1 Among animals that can live in energy and it pr	oduces
2. Television operates by	s transferred between them.
Among animals the energy and tree 2. Television operates byenergy and tree energies. 3. When objects collide with each other,	and 75
 Television operates by energies. When objects collide with each other,	
and it used by	/ LIMoasser.eg



	from column				(D) and	(C):
(R) Chance	1		is in both	columns	(B) and	(-).
(D) CHOOLE	Trom column	/ Al what cil	ite it in Doui	Coldini		

(A) Living organisms	(B) Species	(C) Habitats
1. Bull shark :	a. reptile	A. savannah
2. Starred agama :	b. amphibian	B. salt and fresh water
3. Acacia :	c. fish	C. wet environment
4. Frog :	d. plant	D. desert environment

(A) Put (V) or (X):		
 Exposing to air rich in dust for a long time harms the hu system. 	ıman respiratory (
If two objects travel for equal period of time, the object to a greater distance have a slower speed.	that travels (
3. When an object moves faster, it gains larger amount of	kinetic energy. (
 Camouflage helps animals adapt the extreme weather of ecosystems. 	conditions in their (
(B) Find the speed of a horse, if you know that it covers 2	250 meters in 5 secon	ds
(B) Find the speed of a horse, if you know that it covers 2	250 meters in 5 secon	ıds
	250 meters in 5 secon	ids
(A) Write the scientific term of each of the following : 1. A process through which the body gets oxygen from the		ids
(A) Write the scientific term of each of the following: 1. A process through which the body gets oxygen from the expels out carbon dioxide.	air and (**:
(A) Write the scientific term of each of the following: 1. A process through which the body gets oxygen from the expels out carbon dioxide. 2. An animal that has multiple bright colors to provide came	air and (**
 (A) Write the scientific term of each of the following: 1. A process through which the body gets oxygen from the expels out carbon dioxide. 2. An animal that has multiple bright colors to provide came environment and has V-shaped feet. 	air and (ouflage in its)
(A) Write the scientific term of each of the following: 1. A process through which the body gets oxygen from the expels out carbon dioxide. 2. An animal that has multiple bright colors to provide came	air and (ouflage in its)
 (A) Write the scientific term of each of the following: 1. A process through which the body gets oxygen from the expels out carbon dioxide. 2. An animal that has multiple bright colors to provide came environment and has V-shaped feet. 3. The liquid that stores chemical energy, and it is used to it. 	air and (ouflage in its)
 (A) Write the scientific term of each of the following: 1. A process through which the body gets oxygen from the expels out carbon dioxide. 2. An animal that has multiple bright colors to provide came environment and has V-shaped feet. 	e air and (ouflage in its (move cars.)
 (A) Write the scientific term of each of the following: 1. A process through which the body gets oxygen from the expels out carbon dioxide. 2. An animal that has multiple bright colors to provide came environment and has V-shaped feet. 3. The liquid that stores chemical energy, and it is used to it. 	air and (ouflage in its (move cars.)

Model Exam 8

 The object that travels down a ram Eyes are one of the five senses, or to see the surroundings. 	g the night than hunting during the day. (p is affected by the force of gravity. (n which humans and animals depend on (
(B) Give a reason for the following: The measuring unit of speed is kn	n/hr or m/sec.
(A) Choose the correct answer : 1. If the angle of inclination of a ramp	increases, the kinetic energy of an object
moving down it will	c. remain as it is. d. be destroyed.
a. decrease. b. increase.	
2. In Morse code, long flashes can be	dashes only.
a. dots only.	neither dots nor dashes.
c. both dots and dashes.	
Umbrella-shaped trees includea. mangrove tree and acacia tree.	b mangrove tree and kapok tree.
a. mangrove tree and acada tree.	d. barbary fig and water lilies.
c. acacia tree and kapok tree.4. Fennec foxes and arctic foxes live	in burrows, this belongs to
adaptation.	b. only behavioral
a. only structural	d. neither structural nor behavioral
c. both structural and behavioral	candria for a distance of 220 kilometers in
(B) A train travels from Cairo to Alex 2 hours. Find its speed.	
(A) Correct the underlined words:	e damage that occurs during its collision
01 3 [.0] [][0.	

	than that in	bats. (
The sense of eyesig	ht of owls is weaker than that in I	(
Groups of ants within	n a colony have similar roles.	
(B) What happens if	?	
The amount of food	I in the ant's colony decreases.	
(A) Cross out the odd v	word:	
1. The Sun – The Moor		(
2. Bats - Fireflies - Blir	nd person's cane - Dolphins.	(
	d agama lizard – Panther chamel	eon –
Bull shark.		(
4. Guitar - Flashlight -	Radio – Alarm bell.	(
(B) Look at the opposit	te figure, then complete the follo	owing sentences:
1. The person in this fig	jure use	
to land safely.		
2. The idea of person la	anding in this figure is the	
same idea of stoppin	g the motion of	*
	Model Exam 9	
(A) Complete the follow	wing sentences :	
 The bee dances in a the other bees read t location. 	figure-eight pattern while vibratin the of the dancer and the	g its, and n fly off to the specific
10 m/sec., and car (E	e on the same road, car (A) moves B) moves at speed equals 20 m/se er distance than carin the	ec., this means that car
3. Humans, amphibians	and reptiles have to brea	ath oxygen gas in air
Among safety equipm	ent used during collision of cars a	reand
(B) Give a reason for th		The second series and series are series and series are series and series and series and series are series are series and series are series are series are series are
If you push two simithan the other.	lar toy cars, one of them may trav	el for a longer distance

(A) Put (✓) or (X):	a trans at the local man test an entire some warmen of	,
	r to drink, fish needs clean air to breathe.	(
2. Seatbelt is one of the safety		(
	ach other by using different senses.	(
4. The desert lizard blend in wi	th large green trees, to hide from its enemies.	(
(B) Find the speed of a runner, i	f you know that he covers 400 meters in 20 se	cond
(A) Write the scientific term of	f each of the following :	
(英) 以	consible for protecting the colony from	
dangers.	(
	f fat and dense feathers to adapt extreme	
cold weather.	- I - I - I - I - I - I - I - I - I - I	
3. The visible form of energy, t	hat enable us to ses. (
4. A system that works inside	he living organism's body such that it keeps th	ne
organism away from danger	(
(B) What happens if?		
(A) Choose the correct answe	rs romania descriptori	
	about energy are correct, except	
a. It can be stored in an obj		
b. It can be transferred from	an object to another one.	
c. It can be transformed from	m one form into another one.	
d It can be destroyed and	cannot be created.	
2. The blind person's cane an objects forming an echo.	d emit a high-pitched sound that boun	ces
a. lizards b. polar b	ears c. bull sharks d. bats	
Speed is a measurment of	howsomething is moving, c. fast d. heavy	
a. long b. tall		
4. A very big truck needs	b. small engine	
 a. very small engine 	d. no engine	
c. very big engine	d. He stights	

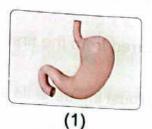
(B) Write the senses that can be used in each of the following types of communication in the table below:

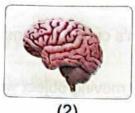
Types of communication	The used senses
1. Watching TV.	
2. Flashing lights of fireflies.	
3. Echolocation in dolphins.	
4. Using the cell phone.	

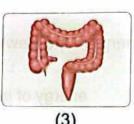
4. Using th	e cell phone.	www.man	
	Mod	el Exam 10	
(A) Choose the	correct answer :	10	
	d cars are		
	o produce sound er		
	o produce kinetic er		
	obtaining energy to		
d. similar in	adaptation to live a	nd survive.	
Push or pull	actions are conside	ered as types of	
a. force.	b. device.	c. energy.	d. adaptation
3. The nervous	s system can do all	the following funct	ions, except
a. gathering	information.		
b. processin	g information.		
c. sending s	ignals.		
d. falling of r	ains.		
4. The speed of	of an object is meas	ured in or	meters per seeond.
a. kilograms	per hour		meters per seeond.
b. grams pe	The state of the s		
c. kilometers			
	per kilometers		
175	on for the followin	2100	
The enine	cord place on least	g :	
function.	cord plays an impoi	tant role in the ne	vous system to do its

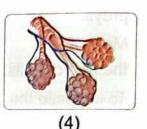
the table. 2. Echolocation proper preys. 3. Most of ene the rest of balls. 4. To increase the	ty is used by	
	nn (B) what suits it in column (A):	_
(A) 1. Esophagus 2. Small intestine 3. Large intestine 4. Stomach 5. Mouth	a. absorbs water from the undigested food to become solid waste. b. mixes the food with an acid and digestive juices. c. the digestion begins in it. d. food gets completely digested in it. e. is a tube has muscles that move the food down into the stomach. f. solid waste leaves the body through it.	
(D) What hannens if	? on the ground and you let a ball out of your hand.	
speed. 2. In a complete dark	r the same distance in the same time, so they have the same time, so they have the same (room, you can use the senses of touching, tasting, smelling (s only have energy, while the objects that don't move have	g)

- We cannot create a new form of energy, and also we cannot destroy an existed form of energy.
- (B) You have some pictures of different parts of the human body. Write down the organ number in front of the system to which it belongs in the following table :









System name	Organ number	
1. Digestive system :		
2. Respiratory system :		
3. Nervous system :		

Final Examinations of some governorates



on the first term 2022

	Cairo (Governorate	Nasi	r City Educational Zone
Put	(V) or (X) in	front of the follow		The small of
1. E	Exhaled air car	Tion on the follow	ving statements	n new g
2. A	person can ic	lentify on all all f	NO LE MONSO	police de la colorada
3. T	he migration	dentify spoiled food	through the touc	on sense. (
а	adaptation.	or birds to search f	or food is conside	ered as form of behavioral
4. T	The skin is the s	ensory organ that n	nakes you feel the	smoothness of the cloth. (
		lowing sentences:		residente anotte angle
		messages to		e nerves.
		as a means of		
		d is an important o		
				stomach, is called
2. <i>A</i>	Animals can co a. sounds and c. reading.	mmunicate with e	ach other through b. talking. d. writing.	
	a. A rock.	b. Moon.	c. Wood.	d. Glass.
4 ۱	Which of the fo	ollowing is a source	e of light?	
	a. Eye.	b. Moon.	c. Fire.	d. Mirror.
6		Landa Halam aver	anisms and things	s under the surface of the
a	A dolphin car water. Explai		amsms and timig	o antaon me our re

	Governorate	Heliop	olis Educational Zone	2
Choose the correc	ct answer.			
1. Raising the thur	mb up or lower it	down is a kind of		
a. colors.	b. codes.		d. lights.	
2. Bats are	D. Codes.	c. waves.	u. lights.	
a. nocturnal			d not flying	
3. If a car covered	a distance of 10	c. not hearing	d. not flying 2 seconds, so the sp	224
the car is	a distance of 10	meters in a time of a	z seconas, so the sp	eea
a. 50m/sec.		c. 20m/sec.	d. 5m/sec.	
4. The roots of pal	m plants help the	om to	d. Jill/Sec.	
a. stand strong	against the wind	b. reach the unde	praround water	
c. fixing plants in	n the soil	d. all the above.	erground water.	
5. The force that c	auses an object t	o move a distance is	الموامد	
a. work.	b. potential.	The state of the s		
<u>Large at 5</u>	According to the street	c. gravity.	d. pull.	
Put () or (x):				
The respiratory	system is respon	sible for the entry of	air into the body	,
z. Doipinis nave a	strong sight sen	se.		,
Wood is a trans	parent object that	t allows light to paus	iorganh it	(
The seesaw mo unbalanced.	ves up and down	becasuse the force	s that act on it are	
5. The force that si	lows down or dec	reases the speed of	an object is gravity.	(
			an object is gravity.	(
(A) Write the scien	4:4: - 1 - 1	Company of the Compan		
(A) Write the scien	itilic term of each	h of the following:	we let will a ben't	
 It is the gained e 	energy during the	motion of objects.	We let wat to colored.	
 It is the gained e A measuring uni 	energy during the it for long distance	motion of objects.		
 It is the gained e A measuring uni 	energy during the it for long distance	motion of objects.		
 It is the gained e A measuring uni A type of adapta 	energy during the it for long distance ition that helps an	motion of objects. es. animal to hide.		
 It is the gained e A measuring uni A type of adapta (B) 1. Give a reaso Some dogs live 	energy during the it for long distance it for long distance it for that helps and in for the following in a cold environ	motion of objects. es. a animal to hide. ng:	and the same	
 It is the gained e A measuring uni A type of adapta (B) 1. Give a reaso Some dogs live 	energy during the it for long distance it for long distance it for that helps and in for the following in a cold environ	motion of objects. es. a animal to hide. ng:	and the same	912
 It is the gained e A measuring uni A type of adapta (B) 1. Give a reaso Some dogs live 	energy during the it for long distance it for long distance it for that helps and in for the following in a cold environ	motion of objects. es. animal to hide. ng:	and the same	
 It is the gained e A measuring uni A type of adapta (B) 1. Give a reaso Some dogs live 	energy during the it for long distance it for long distance it for that helps and in for the following in a cold environ	motion of objects. es. a animal to hide. ng:	and the same	6 I
 It is the gained e A measuring uni A type of adapta (B) 1. Give a reaso Some dogs live 	energy during the it for long distance distance it for that helps and in for the following in a cold environg your opinion, when	motion of objects. es. n animal to hide. ng: nment, while other do nich of them have thi	ogs live in a hot ck fur ? And why ?	
 It is the gained et A measuring unit A type of adapta (B) 1. Give a reasons Some dogs live environment. In Company of the environment of the environment. 	energy during the it for long distance distance it for that helps and in for the following in a cold environg your opinion, when	motion of objects. es. a animal to hide. ng: ment, while other do nich of them have thi	and the same	

		Fir	al Examination
3 Cairo	Governorat	e El-Sahel	Educational Zone
a. camouflage. c. immigration. 2is co a. Heavy clothe c. Thick fur	avioral adapta	b. extinction. d. reproduction. dy of arctic fox. b. Heavy skin	al protect itself from
4. The ability to do a. energy.	b. Owls work is b. force.	c. Foxes	d. Bats
a. horses.	b. cats.	of the following, except c. humans.	d. dogs.

ut	(V)	or	(X)	:
	ut	ut (🗸)	ut (🗸) or	or (x)

1. Exhaled air carries oxygen.	- (
2. When the roller coaster alides down fast, its kinetic energy increases.	(
3. In the electric ten, the kinetic energy is converted into electric energy.	ì	
4. Some animals can see at night.	ì	
5. Human can identify spoiled food through touch sense.		

(A) Choose from column (B) what suits it in column (A):

Column (A)	Column (B) spled sen and		
1. Gravity	a. the energy stored inside the body.		
2. Friction	b. the force that pulls things downwards.c. a force that arises between the surfaces of two contacted bodies.		
3. Speed	d. energy stored inside dry batteries.		
4. Potential energy	e. the distance covered per time unit.		

4. Potential energy	e. the distance	e, the distance covered per time unit.			
- 1.	2	3	4		
(B) Calculate that spe	ed of a runner tha	at covers 150 mete	ers in 10 seconds.		
THE RESIDENCE		-12 1 1 1 1 1 1 1-1	i F		

4 Cairo Go	vernorate		El-Zeitoun Educational Zo	ne	N. Control
Choose the correct a	nswer :				
1. When light falls on		o contract.			
a. the surface abso	orbs the light.	b. liaht r	easses through it.		
c. the light is refrac			ng happens.		
2. What happens to li	ving organisms		adapt to the conditions of the	neir	
environment?			The second secon		
a. Their number inc	reases.				
b. They can't stay ir	the environm	ent.			
c. They keep their r	umber consta	nt.			
d. They can survive	in the environ	ment.			
3 energy a	ffects the sens	ory recept	ors in the eye causing vision	1.	
a. Sound		b. Kinetic	7(51.1)		
c. Light		d. Magne	etic		
4. All of the following a	re examples o	f pulling fo	rce, except		
a. kicking a ball.		b. pulling	the rope.		
c. opening the desk'	s drawer.	d lifting L	p your bag.		
Put (🗸) or (X) :		, e - 111 1 11			
1. Human can identify :	spoiled food th	rough tour	h sense	(
2. Bats use their sense	(#2-			(
			el the smoothness of cloth.	(
4. Energy is neither des				(
r. Energy is neither des	stroyed nor ore	ated from	nouning.	`	
Choose from column (E	3) what suits it	in column	(A):		
A)					
Column (A)		(Column (B)		100
1. Carbon dioxide	a. process t	hat diaphra	agm expands and moves up).	
2. Exhalation			ing air in and out of the bod		
	c. is a gas th	nat is produ	uced by respiration process		

Column (A)	Column (B)		
1. Gravity	a. the energy	stored inside the body	. edi
2. Friction	h the force th	at pulls things downw arises between the s	aras.
3. Speed	contacted b	oodies. ed inside dry batteries	
4. Potential energy	e. the distance	e covered per time un	it. "arolas a
•	2	3	4

4. Potential energy	e. the dista	e. the distance covered per time unit.				
1	2	3.	4			
2. When light is refle	e of the importar ected off a surfac	torgans in thece in different directions, skin to warm it is consider	so that surface			
(A) What is a comm animals?	on mean of con	nmunication between hu	mans and some			
(B) A dolphin can loo water. Explain w	cate living organ	nisms and things under the	e surface of the			
G: G	然有信息的态度 。	Worth Giza F	ducational Zone			

1 Complete the following sentences using the words between	en brackets:
--	--------------

- (carton glass) 1. From the opaque objects
 - (from the brain to the 2. Sensory receptors send a message

muscles - from the sensory organs to the brain)

- 3. When a person pushes a car forward, his body begins to sweat heavily because his body his stored energy. (consumes - increases)
- 4. The gas oven converts energy stored in the natural gas into heat (chemical - electrical) energy to cook the food.

Choose the correct answer :

- 1. When a body moves forward, the change that occurs is in
 - a. the position of the body.
- b. the size of the body.
- c. the mass of the body.
- d. the Earth's gravity.

	2. All the following represa. kick a ball. c. close the disk's dra 3. Thesystem surroundings, such a a. respiratory b. d.	awer. d m helps us to tra s smells and so	. lifting up a ba anslate messag unds. nervous	g. ges that come from o	our
	4. Raising the thumb up a. colors. b. c	or lower it dow odes. C	. waves.	d. lights.	
	Put (v) or (x): 1. The ear is the sense 2. The human digestive 3. When the position of moves.	a body changes	according to a	a fixed point, the boo	
4	(A) Calculate the speed	of a train that	covers 600 kilo	meters in a time of	6 nou
	(B) Look at the following	ng figures, then	answer the qu	estions.	
	Fig.	(A)	F	ig. (B)	
5	Which of the previou wooden spoon? And Choose from column (B	explain why?		on of light rays from a	a
	Column (A)		Column	(B)	Winds.
	 Gravity Friction Speed Potential Energy 	b. the force that c. a force that contacted b d. energy stor	stored inside that pulls things of arises between odies, ed inside dry base covered per ti	downwards. In the surfaces of two	

Giza Governorate

6th of October Educational Zone

Choose the correct	t answer :				
1. One of the beha	vioral adaptation	that helps animal p	rotect itself from e	nemies	;
is					
a. camouflage.	b. extinction.	c. reproduction.	d. digestion.		
2. The force that sl	ows down (decre	ases) the speed is	called		
a. push.	b. gravity.	c. friction.	d. pull.		
3. The organ respo	onsible for the sig	ht sense is	***** (TE		
a. the ear.	b. the tongue.	c. the nose.	d. the eye.		
4. Ability to do wor	k is				
a. energy.	b. force.	c. push.	d. pull.		
5. An animal has th	ne ability to turn it	ts head in all directi	ons is the		
a. snake.	b. jerboa	c. dolphin.	d. owl.		
			TO WIND		
Put (✓) or (X):					
1. Wood is a trans	parent object the	railows light to pas	s th <mark>rough it.</mark>	()
2. A static ball mov	ves on the ground	if it is affected by a	a force.	()
3. In the electric fa	ın, the kinetic ene	ergy is converted in	to heat energy.	()
4. Light travels in	straight lines.			()
5. Some animals of	can see at night.			()
		a man diamon n	rana isan		
(A) Complete the	following senten	ices using the word			0
1. The speed of m	oving object =		(distance x time –	distanc	-)
2. Fish have	to breath.		(gil	ls – lun	gs)
3. One of the light	reflecting materia	als is	(woo	d – mirr	or)
4 is a	source of light.		(the Sun	- the e	ye)
(B) Some dogs liv	e in a cold enviro	onment, while othe	rs live in a hot		
environment.	in your opinion,	which of them have	thick fur ? And w	hy?	
P					
			······································		****

7 Alexandria Governorate

7 Alexand	ria dovern				
a Eve.	b. Moon.	ce of light ? c. Fire.		na	
	b. morning be figures which ba	c. not hearing all has the greatest p	d. not flyi potential ene	rgy?	
a. Figure (1).					
b. Figure (2).					8
c. Figure (3). d. Figure (4).				(0)	(4)
		(1)	(2)	(3)	(4)
	h nuching	down toward the ce			
The force that a. push.	t slows down or de b. gravity.	c. friction.	d. pull.		
2 Put (🗸) or (X) :	em and gride				,
1. Foxes have s	trong hearing sen	se.	1 [7]		(
2. Wood is a tra	nsparent object th	at allows light to pa	ss through it.		(

4. The chemical energy in a battery can be converted into electrical energy. Choose from column (B) what suits it in column (A):

3. Food turns from complex to simple during the digestion process.

Column (A)	Column (B)
1. Camouflage	a. it helps us to see,
2. Smell	 b. a type of adaptation that helps an animals to hide c. ants use it to communicate.

	1,		4.	********
4	(A) Complete	the following	sentences	•

1. The different languages are considered as

2. During exhalation, gas comes out of the lung.

(B) Look at the following figures, then answer the questions:





El-Qualyou	bia Governorat	e Obou	r Educational Zone
Choose the corre	ct answer :	•	
1. The organ resp	onsible for the sigh	t sense is	
a. the ear.	b. the tongue.	the nose.	d. the eye.
2. One of the beh enemies		that helps the anin	nal protects itself from
 a. camouflage. 	b. extinction.	immigration.	d. reproduction.
3 ene	ergy affects the sen	sory receptors in th	e eye, causing vision.
a. Sound	b. Kinetic	c. Light	d. Magnetic
4. Animals can co	ommunicate with ea	ach other through	
a. sound and li	ights.	b. talking.	
c. reading.		d. writing.	
5. The roots of pa	alm plants help ther	n to	
a. stand strong	g against the wind.	b. reach the unde	erground water.
c. fixing plants	in the soil.	d. all the previous	
6. The force that	pulls the objects do	own toward the cen	ter of the Earth is
a. gravity.	b. pushing.	c. water.	d. wind.
7. The chemical	energy stored in ba	tteries is considere	d a form of
a. potential en	ergy.	 b. kinetic energy. 	entras as pertent
c. heat energy		d. light energy.	

Column (A)	Column (B)
Tapetum lucidum Pharynx	a. it is a common organ in the digestive and respiratory systems. b. a muscle that has an important role in the respiration c. a structural adaptation in the eye provides some. animal a better vision at night.
1,	2
2. The speed of a mov	ving object = (distance \times time $-\frac{\text{distance}}{\text{tine}}$
Answer the following Rabbits have long and	question: I strong hind legs that help them to jump quickly and es etermine the type of adaptation.
Answer the following Rabbits have long and	strong hind legs that help them to jump quickly and es
Answer the following Rabbits have long and in dangerous times. D	etermine the type of adaptation. Al-Hessinia Edit phal Zone
Answer the following Rabbits have long and in dangerous times. D	d strong hind legs that help them to jump quickly and estermine the type of adaptation. Al-Hessinia Edit phal Zone
Answer the following Rabbits have long and in dangerous times. D Choose the correct and 1. One of the behavior enemies	etermine the type of adaptation. Al-Hessinia Edit onal Zone
Answer the following Rabbits have long and in dangerous times. D Choose the correct and 1. One of the behavior enemies	Al-Hessinia Edit binal Zone al adaptations that helps the animal protect itself from extinction. c. immigration. d. reproduction. c. c. immigration. d. reproduction. d. recept
Answer the following Rabbits have long and in dangerous times. D Choose the correct and 1. One of the behavior enemies	Al-Hessinia Edit on Zone Tal adaptations that helps the animal protect itself from extinction. C. immigration. C. immigration. C. immigration. C. immigration. C. nerves. C. nerves. C. nerves. C. nerves. C. d. brain.
Answer the following Rabbits have long and in dangerous times. D Choose the correct and 1. One of the behavior enemies	Al-Hessinia Edit phal Zone aswer: ral adaptations that helps the animal protect itself from extinction. c. immigration. d. reproduction. are components of the nervous system, except
Answer the following Rabbits have long and in dangerous times. D Choose the correct and 1. One of the behavior enemies	Al-Hessinia Edit onal Zone aswer: ral adaptations that helps the animal protect itself from extinction. c. immigration. d. reproduction. are components of the nervous system, except
Answer the following Rabbits have long and in dangerous times. D Choose the correct and 1. One of the behavior enemies	Al-Hessinia Edit onal Zone al adaptations that helps the animal protect itself from extinction. c. immigration. d. reproduction. are components of the nervous system, except

Choose from column (B) what suits it in column (A):

(A)	(B) (B)
1. Motion	A structural adaptation whose function is similar to the lungs.
2. Gills	b. A type of adaptation that helps an animal to hide.
3. Camouflage	c. The change in the position of an object with respect to a fixed point.

Complete the following sentences using the words between brackets:

- The time that the body takes to react to different information from the environment is called (reflex action reaction time)
- 2. Bats use as a means of communication with each other.

(sound - light)

3. The ability to do a work is called

(energy - gravity)

5 (A) Answer the following questions:

- 1. A dolphin can locate living organisms and things under the surface of the water. Explain Why?
- 2. When you sit on the chair without moving. What is the name of the force that pulls you downward?
- (B) Give a reason for the following:

The leaves of plants that float above the surface of the water are so wide.

......

10 El-Garbia Governorate

El-Santa Educational Zone

1 Choose the correct answer:

- 1. When a ball stands on the ground without moving, the forces acting on it are
 - a. balanced.
- b. unbalanced.
- c. push it up.
- d. not equal.
- 2. The chemical energy stored in batteries is considered a form of
 - a. kinetic energy,

b. potential energy.

c. heat energy.

- d. light energy.
- 3. The ability to do work is
 - a. force.
- b. energy.
- c. pull.
- d. push.

Choose from column (B) what suits it in column (A):

(A)	(B)
. Jerboa 2. Snake 3. Bat	a. it depends on the body's sense of heat for predation.b. it depends on the echo of the sound in locating the preyc. it depends on its hind legs to jump.

1.		To the Land
***************************************	2	3

3	Dus	1. 1			_
	Put	(V)	or	(x)	:

Gravity pulls objects towards the center of the Earth.		
2 In the all the second towards the center of the Earth.	()
2. In the electric fan, the kinetic energy is converted into electric energy.	(١
When the roller coaster slides down fast, its kinetic energy increases.	,	١
		,

(A) If the two cars moved at the same time for 20 secon a distance of 100 meters, while car (B) covered a dis Which of the two cars has a higher speed?	nds, car (*) covered stance *** *** 0 meters.
---	---

(B) Cal	culate the speed of a train that covers 600 km in a time of 6 hours.
	mat covers ood km in a time of 6 hours.

Complete the following sentences using the words between brackets:

	and and and and	between brackets :
1is	an opaque object.	arachets.
2 is	the organ that we can use to soul	(Carton – Glass)
	s the organ that we can use to send or	receive a light code.

(Eye - Heart)

3. The time that the body takes to react to different information from the environment is called (reflex action - reaction time)

11 Kafr El-Sheikh Governorate

Al-Hamoul Educational Zone

Choose the corre	ct answer :					
1. Raising the thu	mb up or lower it dow	n is a kind of				
a. colors.						
2. The organ resp	onsible for the sight s	sense is				
a. the ear.				e.		
3. One of the beha	avioral adaptations th			DE SERVICE DE LA CONTRACTOR DE LA CONTRA		
enemies		TENTO TRANSPORTER				
a. camouflage.	t t	b. extinction.				
c. immigration.		d. reproduction	n.			
4. An animal that	has the ability to turn	its head in all	directions is			
a. snake.	b. jerboa.					
5. When a body m	noves forward, the ch	nange that occ	curs is in			
a. the position of		b. the size of t				
124. F=\W	he body.		590			
5. Force is the ab	ility to do work or cau) to column (A) :	use change.	ाट प्रतिकृतिकार स्थान स्थान अपन	s ta privors singo lanVy	(
(A)	in elles mon (8) en.	(B)	fenerav is st	What kind o	.8	
1. Light	a. an animal with	h a bowl-like f	ace.			
Angelia de como como	b. it is the visible	form of energ	y that is trans	mitted in the	,	
2. Owl	form of waves.					
	c. it depends on	its hind legs t	o jump.	and the state		
1	2			481		
Complete the fol	lowing sentences fro	om the two br	ackets:	11111		
1 is a				(Wood -	Gla	ss)
2 is th			S _r	The second second		
Z 15 U	e organ that we can	use to send o	r receive a so	ound code.		
	ne organ that we can	use to send o	r receive a so	ound code. (Ear –	Hea	
3 troo				(Ear –	Hea	
3 tree	has long and strong		t the water wa	(Ear –		art)

al Zone
yel
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DET T
she is
– 5 km/hr.
mething?
Muscle
at energy)
– gravity)
the
the

2.

1.

13 Beni-Suef Governorate

Beba Educational Zone

Choose the correct a	nswer :			
1. An animal that has	the ability to to	urn its head in all	directions is	
	jerboa.	c. dolphin.	d. owl.	
2 energy a	affects the sen	sory receptors in	the eye, causing v	ision.
a. Sound b.	Kinetic	c. Light	d. Magnetic	
3. All of the following	are examples	of pulling force,	except	
a. kicking a ball.		b. pulling the r	ope.	
c. opening the desi	c's drawer	d. lifting up a t	oall.	
 A horse is faster that at the same time. 	an a human, a	s the human cov	ers adi	stance
a. less b.	greater	c. double	d. twice	
5. Each of the followir	ng is consider	ed a source of lig	ht, except	
a. the fire. b.	the Sun.	c. the lamp.	d. the eye.	
Put (✓) or (ێ): 1. The brain is respor 2. When a pen falls d				(
Put (✓) or (X): 1. The brain is respond 2. When a pen falls denoted the gravity force. 3. Dolphins have a state. 4. Energy is neither denoted the state.	own from you rong sight ser lestroyed nor o animals need	r hand, then the anse. created from noth a source of light	ning.	(
Put (v) or (x) : 1. The brain is respond 2. When a pen falls described the gravity force. 3. Dolphins have a standard. 4. Energy is neither describer described.	own from you rong sight ser lestroyed nor o animals need	r hand, then the anse. created from noth a source of light	ning.	((((
Put (✓) or (X): 1. The brain is respond 2. When a pen falls denoted the gravity force. 3. Dolphins have a state. 4. Energy is neither denoted the state.	rong sight ser lestroyed nor canimals need (B) what suit	r hand, then the anse. created from noth a source of light s it in column (A)	ning. to see.	((((((((((((((((((((
Put (v) or (x): 1. The brain is respond 2. When a pen falls do the gravity force. 3. Dolphins have a sta 4. Energy is neither do 5. Both humans and a	rong sight ser lestroyed nor canimals need (B) what suit a. a muscle process.	thand, then the asse. created from noth a source of light s it in column (A) (B)	ning. to see. ortant role in the res	((((
Put (v) or (x): 1. The brain is respond 2. When a pen falls do the gravity force. 3. Dolphins have a st 4. Energy is neither d 5. Both humans and a Choose from column (A)	rong sight ser lestroyed nor canimals need (B) what suit a. a muscle process.	thand, then the asse. created from noth a source of light s it in column (A) (B)	ning. to see.	((((
Put (v) or (x): 1. The brain is respond 2. When a pen falls do the gravity force. 3. Dolphins have a state. 4. Energy is neither decended and a column (A) 1. Motion	rong sight send estroyed nor deanimals need (B) what suit a. a muscle process. b. it gives a c. the ability d. the change	thand, then the actions is a source of light s it in column (A) (B) that has an important to do work. The position is the position of the position is the position of the position is the position in the position in the position is the position in the pos	ning. to see. ortant role in the res	
Put (v) or (x): 1. The brain is respond 2. When a pen falls do the gravity force. 3. Dolphins have a structure of the second of the gravity force. 4. Energy is neither dots. Both humans and a condition (A) 1. Motion 2. The spinal cord 3. Diaphragm	rong sight send estroyed nor deanimals need (B) what suit a. a muscle process. b. it gives a c. the ability d. the change to a fixed	thand, then the acceptance of light a source of light s it in column (A) that has an importance of the interest of the position point.	ning. to see. ortant role in the resemble to contract. of an object with re	
Put (//) or (x): 1. The brain is respond 2. When a pen falls do the gravity force. 3. Dolphins have a structure of the series o	rong sight sendestroyed nor eanimals need (B) what suit a. a muscle process. b. it gives a c. the ability d. the change to a fixed e. the force	thand, then the asse. created from noth a source of light is it in column (A) (B) that has an important to do work. ge in the position point. that causes the best	ning. to see. ortant role in the resemble to contract. of an object with re	spect

Assiut Go	overnorate		Assi	ut Education	onal Zone
Choose the correct a	answer :		ha ani	mal protec	ts itself from
One of the behavi enemies	oral adaptations t	nat neips i	ne am	mai pi	
a. camouflage.		o immiars	ation	d. repro	duction.
2. To communicate t					
a. making a sound		b. availab			
c. hearing music.					
3. Each of the follow					
The state of the s					
A 10-0-0-1	the Sun.			d. the e	Mark State
 All of the following a. kicking a ball. 					
	sklo dea	b. pulling	ine rop	e.	
c. opening the des	ork is	d. draggin	g a ca	r toy.	
5. The ability to do w a. energy.					
The second secon	o. force.	c. push	Such	d. pull.	
(A) Put (✓) or (X):					
 If the acting forces increases 	s on a moving boo	dy decreas	e, the	speed of t	his body
2. The nervous system	m is responsible	for breath	ing.		
3. Bats use their sen	ise of small to avo	old danger	s.		
 Seeing with our eyenvironment around 	/es is a way to ne	ip us colle	ct info	rmation at	out the
The state of the s	ilu uo.				
(B) Calculate the spe	ed of a train that	covers 60	00 kilo	meters in	a time of 6 h
(A) Choose from col	umn (B) what suit	te it in col			
		ra ir ili Coli	umn //		
The state of the s	(4)	ts it iii con	umn (<i>t</i>	v) :	
(A)	of thehology has a	William .	(B)		
(A) 1. Carbon dioxide	a. a gas necessar	V for respi	(B)		Co.
(A) 1. Carbon dioxide a 2. Oxygen	a. a gas necessar b. a structural ada	y for respi	(B)		10 10 10 10 10 10 10 10 10 10 10 10 10 1
(A) 1. Carbon dioxide 2. Oxygen	a. a gas necessar b. a structural ada c. it helps us to se	y for respi	(B) ration. ose fur	oction is sin	nilar to the lur
(A) 1. Carbon dioxide 2. Oxygen	a. a gas necessar b. a structural ada c. it helps us to se	y for respi	(B) ration. ose fur	oction is sin	nilar to the lur
(A) 1. Carbon dioxide 2. Oxygen	a. a gas necessar b. a structural ada c. it helps us to se d. is a gas that is	y for respi ptation who ee. produced	(B) ration. ose fur	iction is sin	rocess.
(A) 1. Carbon dioxide a 2. Oxygen 3. Gills 1	a. a gas necessar b. a structural ada c. it helps us to se d. is a gas that is	y for respi ptation who ee. produced	(B) ration. ose fur during	ection is sin	rocess.
(A) 1. Carbon dioxide 2. Oxygen 3. Gills 1	a. a gas necessar b. a structural ada c. it helps us to se d. is a gas that is 2.	y for respi ptation who ee. produced	(B) ration. ose fur during	ection is sin	rocess.
(A) 1. Carbon dioxide 2. Oxygen 3. Gills 1	a. a gas necessar b. a structural ada c. it helps us to se d. is a gas that is 2. esite figure, then a	y for respi ptation who ee. produced	(B) ration. ose fur during	ection is sin	rocess.
(A) 1. Carbon dioxide 2. Oxygen 3. Gills 1	a. a gas necessar b. a structural ada c. it helps us to se d. is a gas that is 2. esite figure, then a essed spring is re	y for respi ptation who ee. produced	(B) ration. ose fur during	ection is sin	rocess.

15	Sohag	Governorate
	The state of the s	

Sohag Educational Zone

1 Complete the following sentences from the two brackets:	4	
the onague objects	(carton – glas	
2. The amount of energy required to move an object through	(Work poterial	is al)
3. From the organs that we can use to send or receive the co	(noan or	
4. The echo sound feature depends on (hearing the lungs and causes many diseases.) 5	(Diodam)	8
 Put (/) or (x): 1. Wood is a transparent object that allows light to pass through the digestive system in animals breaks down food into single. 2. The digestive system in animals breaks down food into single. 3. Animals digging holes are a form of structural adaptation. 4. Snakes have the ability to rotate the pheads in all direction. 5. When the position of the body changes according to a fix moves. 	ons. ()))
Answer the following: 1. Which of the following consumes less fuel a truck or a sn	nall car ?	
2. When you sit on the chair without moving. What is the na pulls you downward?		50555
- Sangaran Cara		

El-Moasser Final Examination Models

Model Exam (1)

- 1 (A) 1. b
- 3. d 2. C
- 4. C
- (B) To prevent the driver and passengers from moving forward when the car suddenly stops.
- 3. (1) 2 (A) 1. (X) 2. (< 4. (x)
 - (B) The kinetic energy will increase.
- (A) 1. decreases. 2. nose 3. increase
 - 4. kinetic sound
 - (B) Pulling force: 2-6 Pushing force: 1-3-4-5
- 4 (A) 1. Trunk.
- 2. Nerves.
- 3. Friction force.
- hour or second
- (B) speed = $\frac{\text{Distance}}{\text{Time}}$ $=\frac{300}{30}$ = 10 m/sec.

Model Exam 2

(A) 1. parachutes

48

- 2. kinetic
- 3. electrical sound
- 4. light sound
- (B) Due to the pushing force of his hand against the ball that stops it.

- 2 (A) 1. c 2. b 3. c 4. d
 - (B) Light is reflected in different directions.
- 3 (A) 1. cars
 - 2. thermal energy.
 - 3. sharp
- 4. tires

(B)

Opaque objects	Transparent objects		
• Wood.	· Air. · Water.		
Metal.	• Lenses.		

- 4 (A) 1. Nurse ants. 2. Gravity.
 - 3. Needle leaves.
 - 4. Nose.
 - (B) Speed = $\frac{\text{Distance}}{\text{Time}}$ $=\frac{160}{2}$ = 80 km/hr.

Model Exam (3)

- 1 (A) 1. c 2. d 3. b 4. b
 - (B) Because the mirror has more smooth surface than the painted surface.
- 2 (A) 1. (★) 2. (✔) 3. (1) 4. (1)
 - (B) Speed = Distance $=\frac{240}{3}$ = 80 km/hr.

- (A) 1. Sense organs.
 - 2. Vents or Holes.
 - 3. Rough surface.
 - 4. Diaphragm.

(B)

Organisms live in deserts	Organisms live in forests
 Starred agama lizard. Fennec fox. Palm tree. Barbary fig plant. 	- Panther chameleon Kapok tree.

(A) 1. esophagus – stomach 2. trachea

(B)

Points of comparison	Inhalation	Exhalation
1. Diaphragm movement :	Downward	Upward
2. Size of chest cavity :	Increases	Decreases
3. The air is rich in :	Oxygen gas	Carbon dioxide gas

Model Exam 4

- (A) 1. Camouflage.
 - 2. Nervous system.
 - Electrical energy.
 - 4. Work.
 - (B) The Sun (or candle etc.).
- 2 (A) 1. c 2. a 3. d 4. d

- (B) The ecosystem still clean without pollution.
- 3 (A) 1. unbalanced
 - 2. sound
 - 3. Kinetic energy
 - 4. nervous system.
 - (B) Speed = Distance $=\frac{200}{5}$ = 40 m/sec.
- (A) 1. ears brain
 - 2. smell movement
 - 3. decrease.

(B)

Points of comparison	Polar bear	Forest bear
1. Habitat :	Polar habitat.	Forest habitat.
2. Fur color :	White.	Black or brown.

Model Exam

- 3. b 2 a 4. d
 - (B) It cannot reach to underground water in dry season, and cannot survived.
- (A) 1. (✓) 2. (×) 3. (1) 4.(1)
 - (B) 1. Balanced. 2. Unbalanced.

- (A) 1. Fennec foxes.
 - 2. Gravity.
 - 3. Airbags.
 - 4. Mangorove tree.
 - (B) To be away from animals that eat its leaves.
- (A) 1. Changing
 - 2. pulling
 - 3. Airbags
 - 4. pulling force
 - (B) 1. nervous
 - 2.(2)-(3)-(1)

Model Exam 6

- 1 (A) 1. b 2. d 3. b
 - (B) Because camouflage helps some animals hide from their predators or preys in different environments.
- 2 (A) 1. (x) 2. (x) 3. (x) 4. (\sqrt{)}
 - (B) Animals have super sight sense : Tarsier – Fishing cat.
 - Animals have super hearing sense : Bat – Dolphin.
- (A) 1. Small intestine.
 - 2. Countershading.
 - 3. Energy.
 - 4. Tongue.

- (B) Speed = $\frac{\text{Distance}}{\text{Time}}$ = $\frac{150}{5}$ = 30 m/sec.
- (A) 1. potential energy.
 - 2. potential energy
 - 3. kinetic energy.
 - 4. kinetic energy
 - (B) 1. Figure (a)
 - 2. Figure (b)
 - 3. diaphragm increases
 - 4. carbon dioxide

Model Exam 7

- 1 (A) 1. b 2. d 3. d 4. d
 - (B) Some of kinetic energy is changed into thermal energy.
- (A) 1. penguin polar bear.
 - 2. electrical light sound.
 - 3. energy
 - 4. hearing bats dolphins.
 - (B) 1. c → B
 - 2. a → D
 - 3. d → A
 - 4. b → C
- 3 (A) 1. (✓) 2. (★) 3. (✓) 4. (★)
 - (B) Speed = $\frac{\text{Distance}}{\text{Time}} = \frac{250}{5}$ = 50 m/sec.
- 4 (A) 1. Respiration process.

- 2. Panther chameleon.
- 3. Fuel.
- 4. Chemical energy.
- (B) Because polluted air causes harm to the respiratory system.

Model Exam 8

- 1 (A) 1. (★) 2. (✔) 3. (✔) 4. (✔)
 - (B) Because speed = $\frac{\text{Distance}}{\text{Time}}$
- 2 (A) 1. b 2. b 3. c 4. b

(B) Speed =
$$\frac{Distance}{Time}$$

= $\frac{220}{2}$ = 110 km/hr.

- (A) 1. increases.
 - 2. Water
 - 3. stronger
 - 5. different
 - (B) The nurse ants send smelly messages to scout ants that alert other ants where to find the food.
- (A) 1. The Moon (All items are sources of light, while the Moon reflects the light).
 - Fireflies (All items use echolocation property, while fireflies cannot use echolocation property).

- Bull shark (All items live on land, while bull shark lives in water).
- Flashlight (All items produce sound energy, while flashlight produces light energy).
- (B) 1. parachute.
 - 2. shockwave truck.

Model Exam 9

- (A) 1. wings code
 - 2. (B) (A)
 - 3. lungs
 - 4. airbags seatbelts.
 - (B) Due to the difference in the forces that act on them.
- 2 (A) 1. (≭) 2. (✓) 3. (✓) 4. (≭)
 - (B) Speed = $\frac{\text{Distance}}{\text{Time}}$ = $\frac{400}{20}$ = 20 m/sec.
- (A) 1. The soldier ants.
 - 2. Penguin.
 - 3. Light.
 - Nervous system.
 - (B) They cannot communicate with each other or locate the objects around them by the sense of hearing.

(A) 1. d 2. d 3. c 4. c (B)

Types of communication	The used senses
1. Watching TV.	- Sight and hearing.
Flashing lights of fireflies.	- Sight.
Echolocation in dolphins.	- Hearing.
Using the cell phone.	- Sight and hearing.

Model Exam 10

- (A) 1. c 2. a 3. d 4. c
 - (B) Because it transfers messages between the brain and body parts.

(A) 1. energy
2. bat – dolphin
3. kinetic
4. kinetic

(B) Speed =
$$\frac{\text{Distance}}{\text{Time}}$$

= $\frac{100}{2}$ = 50 km/hr.

- (A) 1. e 2. d 3. a 4. b 5. c
 - (B) It will fall down on the ground due to the pulling force of gravity.
- 4 (A) 1. (✓) 2. (✓) 3. (x) 4. (✓) (B) 1. (1), (3) 2. (4) 3. (2)

Final Examination of Some Governorates

Cairo Governorate

1 Nasr City Edu. Zone

- 1. (x) 2. (x) 3. (\(\sigma\) 4. (\(\sigma\)
- 2. echolocation 3. nervous 4. esophagus.
- 3 1. a 2. a 3. d 4. c
- (A) Because dolphin use echolocation as it has a strong sense of hearing.
 - (B) Snake

2 Heliopolis Edu. Zone

- 1.b 2.a 3.d 4.d 5.a
- 2 1. (√) 2. (x) 3. (x) 4. (√) 5. (x)
- (A) 1. Kinetic energy.
 - 2. Kilometer.
 - 3. Camouflage.
 - (B) 1. Dogs live in cold environment have thick fur, to keep their bodies warm.
 - The Sun and a candle.

3 El-Sahel Edu. Zone

- 11.a 2.c 3.c 4.a 5.c
- 2 1. (x) 2. (√) 3. (x) 4. (√) 5. (x)
- 3 (A) 1. b 2. c 3. e
 4. a
 (B) Speed = Distance
 Time

$$=\frac{150}{10}$$
 = 15 m/sec.

4 El-Zeitoun Edu. Zone

- 1 1.a 2.b 3.c 4.a
- 2 1. (x) 2. (x) 3. (√) 4. (√)
- 3 (A) 1. c 2. a (B) 1. b 2. c 3. e 4. a
- 1. respiratory 2. rough.
 - structural
- 5 (A) using codes.
 - (B) Because dolphin use echolocation as it has a strong sense of hearing.

Giza Governorate

5 North Giza Edu. Zone

- 1. carton
 - from the sensory organs to the brain.
 - 3. consumes
- 4. chemical
- 2 1. a 2. d
- 3. c 4. b
- 3 1. (x) 2. (√) 3. (√)
- (A) Speed = $\frac{\text{Distance}}{\text{Time}}$ = $\frac{600}{6}$ = 100 km/hr.
 - (B) Figure (A), because the wooden spoon is a rough surface, so it reflects light in different directions.
- 5 1. b 2. c 3. e 4. a

6 6th of October Edu. Zone

- 1 1.a 2.c 3.d 4.a 5.d
- 2 1. (x) 2. (\sqrt{)} 3. (x) 4. (\sqrt{)} 5. (\sqrt{)}
- (A) 1. Distance 7. gills
 - 3. mirror. 4. The Sun

(B) Dogs live in cold environment have thick fur, to keep their body warm.

Alexandria Governorate

7 El-Agamy Edu. Zone

- 1 1. c 2. a 3. c 4. a 5. c
- 2 1. (V) 2. (X) 3. (V) 4. (V)
- 3 1. b 2. c
- 4 (A) 1. codes.
 - 2. carbon dioxide
 - (B) 1. Figure (a).
 - 2. Figure (b).

El-Qualyoubia Governorate

8 Obour Edu. Zone

- 1 1. d 2. a 3. c 4. a 5. d 6. a 7. a
- 2 1. (✓) 2. (×) 3. (✓)
- 3 1. c 2. a
- 4 1. Pollution
- 2. Distance Time
- 5 Structural adaptation.

FI-Sharkia Governorate

9 Al-Hessinia Edu. Zone

- 1.a 2.b 3.c
- 2 1. (×) 2. (√) 3. (√)
- 1. c 2. a 3. b
- 1. reaction time.
 - 2. sound
- energy.
- (A) 1. Because dolphin use echolocation as it has a strong sense of hearing.
 - 2. Gravity pulling force.
 - (B) To absorb a large amount of sunlight.

El-Gharbia Governorate

10 El-Santa Edu. Zone

- 🚺 1. a 2. b 3. b
- 2 1.c 2.a 3.b
- 3 1. (√) 2. (x) 3. (√)
- (A) Car (B) has the higher speed.
 - (B) Speed = $\frac{\text{Distance}}{\text{Time}}$ = $\frac{600}{6}$ = 100 km/hr.
- 5 1. Carton. 2. Eye.
 - 3. reaction time.

Kafr El-Sheikh Governorate

11 Al-Hamoul Edu. Zone

- 11 1.b 2.d 3.a 4.d 5.a
- 2 1. (x) 2. (√) 3. (√) 4. (√) 5. (x)
- 3 1.b 2a
- 4 1. Wood 2. Ear 3. Mangrove

Al-Behira Governorate

12 Abou-Homous Edu. Zone

- 11 1.c 2a 3.a 4.c
- 2 1.(x) 2.(x) 3.(x) 4.(√)
- 1. 5 km/hr.
 Nerves.
 Chemical energy.
- 11 b 2c

4. gravity

Bani-Suef Governorate

13 Beba Edu. Zone

- 11.d 2.c 3.a
 - 4.a 5.d
- 1.(v) 2(v) 3(x) 4(v) 5.(v)

- 3 1. d 2. b 3. a 4. e 5. c

Assiut Governorate

14 Assiut Edu. Zone

- 1 1. a 2. b 3. d 4. a 5. a
- 2 (A) 1. (★) 2. (★) 3. (★) 4. (✔)
 - (B) Speed = $\frac{\text{Distance}}{\text{Time}}$ = $\frac{600}{6}$ = 100 km/hr.

(B) potential – kinetic.

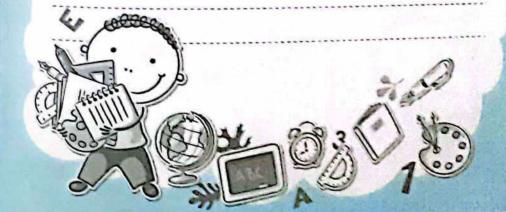
Sohag Governorate

15 Sohag Edu. Zone

- 1 1. carton 2. work
 3. ear 4. hearing sense
 5. pollution 6. Teeth and tongue
- 2 1. (x) 2. (\sqrt{)} 3. (x) 4. (x) 5. (\sqrt{)}
- 1. A small car
 2. Gravity pulling force.



 •
 ······
 •••••



1 Choose the correct answer:

In order for the human being to remain alive, there must an integration between the senses and the interact with the surrounding environment.

a. digestive b. respiratory

c. nervous d. circulatory

2 pant to lower their body temperature.

a. Whales b. Bats

c. Lions d. Foxes

3 When the driver stops suddenly, all the passengers will move

a. upward b. forward

c. backward d. downward

Each of the following is considered a source of light, except.

d. the fire b. the sun

c. the lamp
d. the moon

B Raising the thumb up and lowering it down are kinds of

a. colors b. codes

C. waves
d. lights

out (/) or (x):

The respiratory system is responsible for the entry of air rich oxygen gas into the body.

Foxes have a strong sense of hearing.

The moon is a source of light.

energy affects the	e sensory receptors in th
causing vision. a. Sound c. Light The eye sends messages to th a. spinal cord	b. Kinetic d. Magnetic e through the ne b. heart
c. lungs	d. brain
a. Thick fur	b. Heavy hair
c. Heavy skin	d. Many feathers
Animals can communicate with	each other by
a. talking	b. sound
c. writing	d. reading
Moving a box away from your	epresents force
a. magnetic	b. gravitational
c. pulling	d. pushing
(/) or (x):	

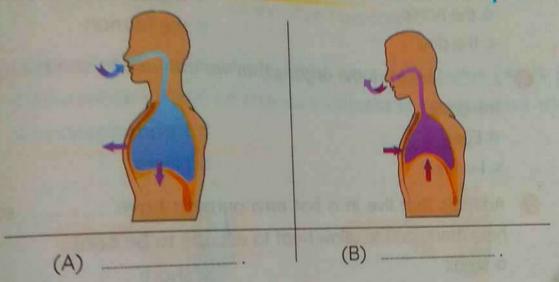
9	The feet of a penguin do not freeze because they have	e
	a layer of fat.	(
8	Bats use their sense of hearing to avoid denous	

Wood is a transparent object that allows light to pass through.

Bees can know the sweet taste by their sense of smell. (

The airbag deflates at the same speed as it is inflated. (

Label the following two processes, then answer the questions:

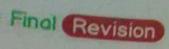


- What happens to the diaphragm in figure (A)?
- What happens to the chest size in figure (B)?

Mode	Pexalle 3
Choose the correct and	swert
The skin is an important	nt organ of the system.
o digestive	b. nervous
c. respiratory	d. circulatory
The pushing and pulling	g forces are different in
a.mass	b. color
c. direction	d.energy
There is a tapetum lucid	lum in all of the following, except
a. the horse	b. the cat
c. the dog	d the human
O are from the ara	rans that we can use to send or rece
the code.	and the control of th
a.Eyes	b. Hearts
C, Lungs	d Livers
6 Animals that live in a ho	
help them, and to allow h	neat to escape to be cool.
a.small	
c.long	b.short d.h
CONTRACTOR OF THE PARTY OF THE	d. sharp
Put (/) or (x):	
THE RESERVE OF THE PARTY OF THE	
 During running and making 	ng an effort, the number of breathi
times decreases.	
Dolphins have a stress	
Dolphins have a strong se	rise of hearing. (
Humans have a tapetum !	lucidum in their eyes to help them
see at night.	- cyco to the

Speed is the distance covered by an object multiplied by the The seatbelt is used to decrease the speed of the driver when study the following figure, then choose the correct word: (faster – slower – increases – decreases – remains constant) a. By using a smaller ball on the same ramp, the object's speed as the object becomes b. By increasing the number of books, the object's speed ____ as the object becomes ___ A Look at the path of the light rays in pictures (A) & (B). Determine which of the two objects is opaque and which is transparent:

Science Prim 4-First Term



Choose the correct ans	wer:
Fish extract oxygen out	of the water using their
a. skin	b. gills
c. lungs	d. fins
2 Which of the following al	lows light to pass through it?
a. A rock	b. The moon
c. Wood	d. Glass
a soft cushion. a. Brakes b. Gas pedals	ag inflate and fill with gas to pro
d. Speedometers	
4 Honeybees and humans	are similar in communication throu

a. sound	b. smell
c. light	d. movements
immediately after it is to	on a hot surface, the brain send and the action that comes from
a. keep placing your hand	
b. feel pain	
c. pull your hand away from d. do nothing	n the hot object

1
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er?
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t Term

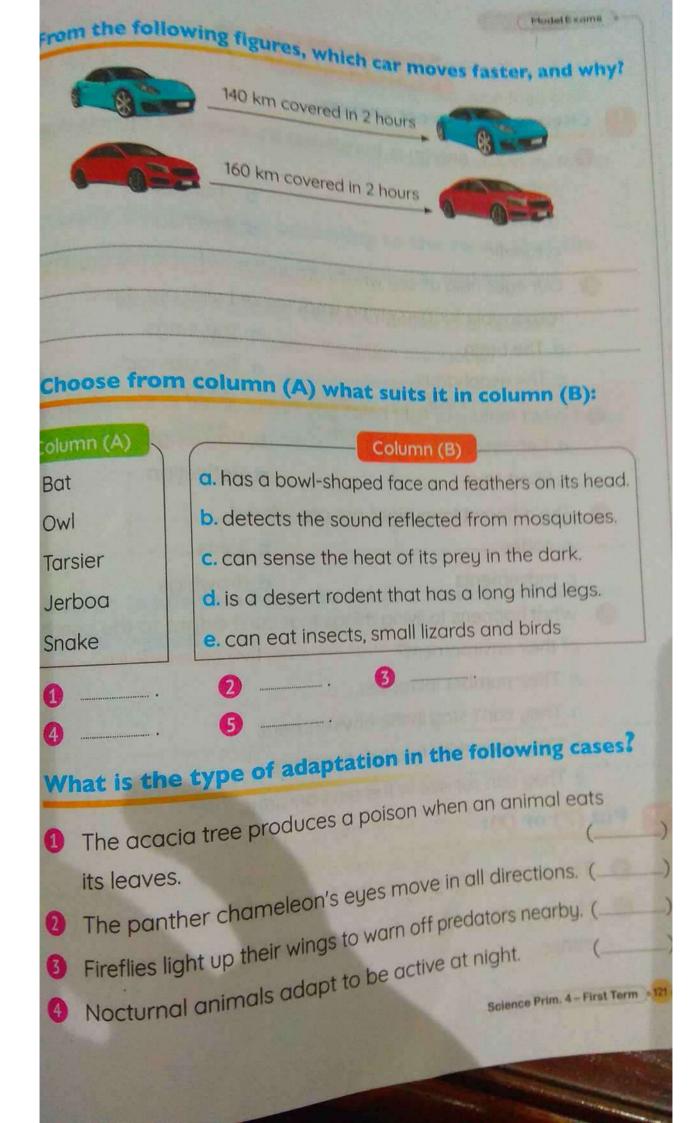
1 Choose the correct answer:	
1 The echo sound feature depea. sight sensec. taste sense	b. hearing sense d. touch sense
2 A static ball on the he a. ramp c. ground	as no energy. b. table d. chair
 A surface that reflects light ray a. smooth and shiny c. transparent and clean 	b. dark with impurities d. rough and dark
4 Humpback whales use singinga. heatingc. communication	b. hiding from enemies d. having fun
 Adaptation includes changes the a. reduce chances of survivale. improve species survivale. reduce life span for individuale. reduce reproduction process 	hat in the environme
Put (/) or (X):	
Plants have two types of adapt	ation, structural and behavio
Animals can use more than one with each other.	e sense to communicate
All nocturnal animals need a so	urce of light to see. (

nce Prim. 4 - First Term

	A static object a energy.	t the top of a ramp has no	Model Exame *
0	6 Force directs an	object and changes work	()
	00:20 e: 20 seconds		
4	Lungs - Tongue -	Nose - Anus - Brain - Ah	veoli - Liver - Nerves - Il intestine
- American	Digestive System	Respiratory System	Nervous System
-			
L			
		· (a) (b) (b) (c)	

-	The first of the contract of t	
1	Charles	correct answer:
	Language the	MARKET THE WELL
	The second second	COLLECT SHOWS

- 1 The dolphin can locate its prey through its sense of
 - a. smell
 - b. hearing
 - c. sight
 - d. taste
- Which of the following is a source of light?
 - a. The eye
 - b. The moon
 - c. Fire
 - d. A mirror
- 6 Animals can communicate with each other through
 - a. sounds and lights
 - b. talking
 - c. reading
 - d. writing
- The stomach is a part of the digestive system that ______
 - a. chews food
 - b. converts solid food into liquid
 - c. absorbs nutrients from food
 - d. delivers food into the esophagus
- In the tug-of-war game, the two teams
 - a. push the rope in the same direction
 - b. pull the rope in opposite directions
 - c. push the rope in opposite directions
 - d. pull the rope in the same direction



Choose the correct answer:

0	energy is	transferred	between	two	objects	di
collision.					1977	during

a. Sound

b. Thermal

c. Kinetic

d. Electrical

Our eyes help us see what's around us. What is the organ that responsible for perceiving what we see with our eyes?

a. The brain

b. The lungs

c. The esophagus

d. The stomach

What feature of light helps you see yourself in the mirror?

a. Refraction

b. Ray length

c. Short rays

d. Reflection

The different languages are considered ____

a codes

b. lights

c. movements

d. drawings

What happens to living things that can't adapt to the condition of their environment?

a. Their number increases.

b. They can't stay in the environment.

c. They keep their number constant.

d. They can survive in the environment.

ut (/) or (X):

The acacia trees grow in the Amazon forest.

Morse code can be detected by sight sense or hearing sense.

in line shares went by report Copper Total	81	3	64	J.	
of Distance kilograms Classify to living organical control co	animals can seare very useful are very useful animals. The covered by the mans. The following anism uses the colphins - Snake Ants - Each	an object can according to communi	o the sense	they can't (in meters (that the rvive:))))
Movement	Hearing Sense	Smell Sense	Touch Sense	Taste Ser	nse
			***************************************		-
A train t	akes five he	ours to cove	r a distance	of 200 k	m.
			Sole	nce Prim. 4 - Fire	st Term

Choose the correct answer:

Humpback whales communication	ate with each other through s
sense of	arman and an arman and an arman arma
a. sight	b. hearing
c. smell	d. touch
An object's mass affects its	
a. potential energy only	
b. kinetic energy only	
c. both kinetic and potential ene	ergies
d. neither kinetic nor potential e	nergies
The roots of the palm plants he	lp them to
a. stand strong against the wind	
b. reach the underground soil	
c. fix the plants in the soil	
d. all the previous	
The is an animal that can	escape from openies because
of the length of its hind legs.	order normanies because
a. Arctic fox	b . jerboa
c. penguin	
	d. panther chameleon
Adel wanted to make a suitable b	oox through which he could see
what was inside without having to	open it. What material should
be used?	
a. Wood	b. A mirror
c. Carton	d. Glass

estore +L	
oject toward you is consi	ceiving digestion. () ceiving it. () on the ramp has () dered a pushing force.
irror	table:
	etal - Plastic
Rough Surfaces	Transparent Surfaces
mad Cons	uits it in both colum Column (C)
Column (b)	
Way of Communication a. use echolocation. b. use Morse code. c. flash their wings.	Depend on a. light energy only. b. sound energy only. c. sound and light energy
2	Science Prim. 4 First Ter
	Illowing words in the irror - Wood - Glass - Me Rough Surfaces Column (A) what su Column (B) Way of Communication a. use echolocation. b. use Morse code. c. flash their wings.

Final Revision

EAAA AAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAA	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
Choose the correct answer	ra
The rope in the tug-of-war	game moves when the forces
acting on it are	
a. equal	b. balanced
c. unbalanced	d. equal zero
Which of these is an examp	le of camouflage?
a. Camel's broad feet	
b. Camel's hump	
c. Powerful parrot wings	
d. The fox is golden like its er	nvironment.
Traffic lights depend on the :	sense of sight in communication
as	
a. fireflies	b. dolphins
c. ants	d. bats
When light is reflected off a s	surface in different directions, this
surface is	
a. transparent	b. smooth
c. rough	d. opaque
Sameh drives his bike, and wi	hile he hears a car behind him, h
turns away so as not to hit it.	The system that received a sign
making Sameh realize that is	
a. the nervous system	b. the respiratory system
male de la companya d	d. the circulatory system
ut (/) or (x):	
The fur that some animals po	ssess to protect them
from the cold is a hehavioral	

O Humpbac to the se	Responsible for processing information. () () () () () () () () () (
Choose fro	m column (A) what suits it in column (B):
Column (A)	Column (B)
Light 2 An owl	 a. depends on the body's sense of heat for predation. b. depends on the echo of the sound in locating the prey.
A snake A bat	c. is an animal with a bowl-shaped face. d. it is the visible form of energy that is transmitted in the form of waves.
Mirror-like membrane	e. a structural adaptation in the eye that provides some animals with better vision at night f. a sense that helps us hear birds.
0	of the state of th
1 What do	oes the following figure represent? is system exist in humans only? ne following:
3	Science Prim. 4 - First Term > 100

the correct answer:	1	Choose	the	correct answer:
---------------------	---	--------	-----	-----------------

0	One of the adaptations that help an animal protect itself from	
	enemies is	-

a. blending in

b. extinction

c. immigration

d. reproduction

is from the opaque objects.

a. Glass

b. Carton

c. Plastic

d. Air

The system helps us to translate messages that come from our surroundings, such as smells and sounds.

a. respiratory

b. digestive

c. circulatory

d. nervous

Sending smelly messages when there is a shortage of food is the function of ______.

a. queen ants

b. nurse ants

c. scout ants

d. solider ants

To calculate the speed of the runner, we use the rule: ____

a. Speed = distance - time

b. Speed = distance × time

c. Speed = distance ÷ time

d. Speed = distance + time

ut (/) or (x):

Some animals that live in the cold have long ears to help them to maintain their body temperature.

The nervous system works separately from the five senses.

- Carriella Maria		
The sun is	tural source of line. (7
o the son is a na	tural source of light.)
Milen gou kick	a ball, kinese)
choose from cor	a ball, kinetic energy is produced.)
STATE OF THE PERSON NAMED IN	iumn (A) what suits it in column (B):	
Column (A)	with Column (B):	
	Column (B)	
The spinal cord	a. it is similar in its processing of information to a computer	
Using the sense	The state of the s	
of sight	b. when a foreign object is brought into your	
The brain	3-01	
The reflex	c. when an object falls from your hands.	
occurs	the transmission of commands to the	
occord	muscles to contract.	
Omar rode his	bike 15 kilometers in 3 hours, how	fast
Omar rode his was he going? I hours, how fast		in 2
Omar rode his was he going? I hours, how fast	bike 15 kilometers in 3 hours, how sashida rode her bike 30 kilometers	in 2
Omar rode his was he going? I nours, how fast	bike 15 kilometers in 3 hours, how sashida rode her bike 30 kilometers	in 2
Omar rode his was he going? I nours, how fast	bike 15 kilometers in 3 hours, how sashida rode her bike 30 kilometers	in 2
Omar rode his was he going? I nours, how fast	bike 15 kilometers in 3 hours, how sashida rode her bike 30 kilometers	in 2
Omar rode his was he going? I nours, how fast	bike 15 kilometers in 3 hours, how sashida rode her bike 30 kilometers	in 2
Omar rode his was he going? I hours, how fast	bike 15 kilometers in 3 hours, how sashida rode her bike 30 kilometers	in 2
Omar rode his was he going? I nours, how fast	bike 15 kilometers in 3 hours, how sashida rode her bike 30 kilometers	in 2
Omar rode his was he going? I hours, how fast	bike 15 kilometers in 3 hours, how sashida rode her bike 30 kilometers	in 2
Omar rode his	bike 15 kilometers in 3 hours, how ashida rode her bike 30 kilometers was she going? Which rider is the fast	in 2 rest?
Omar rode his was he going? I hours, how fast	bike 15 kilometers in 3 hours, how sashida rode her bike 30 kilometers	in 2 test?

Chan			answer:
-noose	the	CORMORA	
	COLUMN TO	Collect	answer.

Choose the correct answer:	DOS DE DE LA COLOR
Cats' eyes are adapted to night behind their eyes.	nt vision due to the presence of the
a. wide eyes	
b. eye pupil	
c. tapetum lucidum	a at the brook brook
d. eye lens	DOI SENSE STORES
Kinetic energy is the energy ga	ined by an object due to its
a. position	b. shape
C. motion	d. size
What carries the message from	n your eyes to your brain.
you see something?	good Brain when
a. Nerves	b. Muscles
C. Veins	d. Glands
A blind person's cane and	emit high-nitched sound
that bounce off form echo.	mgri piteried 500ll0s
a. lizards	
b. bats	
c. bull sharks	
d. polar bears	
NAME OF TAXABLE PARTY.	

What is adaptation?

- a. The process by which new species appear.
- b. A form of pollination for trees.
- C. A feature owned by living things to help them survive.
- d. A process of getting rid of harmful substances in living things

put (/) or (X);	
Animals digging trenches is a form of structural	
peflex is the time	1
information from the environment of the body to receive	
All objects around us move	
All objects around us move at different speeds. Long beeps in Morse code)
- COOP are)
for a few minutes)
Complete using the following words:	
(Penguins - Owls - Bats - Bull Sharks - Fennec foxes - Polar foxes -	
Panther chameleons)	
1 pant to lower their bodies temperature.	
are from the nocturnal animals that have poor night visi	ion.
have the ability to rotate their heads in all directions, o	and
it is called super sensory adaptation.	
an sneak up on its prey using countershading.	
Arrange the following steps that represent the vision prod	cess:
() Brain translates these signals. () Eye pupils allow the light to enter the eyes. () Eye pupils allow the light to enter the eyes.	
() Eye pupils allow the special sign	als to
() Light falls on objects. () Light falls on objects. () Sensory receptors at the back of the eyes send sign () Sensory receptors at the back of the eyes send sign	1010 10
() Sensory receptors	
() Light reflects on the eyes. Science Prim. 4-First 1	Perm = 131
Science Prim. 4	

-0 5

LIIOnea	41		answer:
	LING	COMMON	TO BO CHAIRD BYO

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TOTAL COST COST COST	
is the force that attracts of	bjects toward Earth's Sure
a. Magnetic energy	b. Electrical energy
c. Friction force	d. Gravity
The light-reflecting materials inclu-	de
a. wood	b. mirrors
c. plastic	d. paper
To communicate through the sense	e of sight, we need
a. to make sound	b. light
c. to hear music	d. to touch something
The eagle is a bird that eats the	
strong and sharp. This structural ac	laptation helps it to
a. see	b. find a shelter
c. rip meat	d. escape
Songs of humpback whales in wint	
a. high-pitched sounds	at a criar deterized by,
b. low-pitched sounds	
c. rough sounds	
d. weak sounds	Avragge the followin
ıt (√) or (X):	
Bats use light as a means of comm	Unication with seal-
other.	or lication with each
	Destruction ()
The spinal cord is an important org	an of the digestive
system.	Sun Stiment ()
Fish have gills to expel oxygen under	erwater
Prim. 4 - First Term	
Prun. 4 - Fust torm	

When a moving survive. Digestion of food	bike hits a man	he	(Model Exame . *
Digestion of food	begins in the	may be in	ured only and
Choose from colu	mn (A) what	outh.	()
column (A)	THE RESERVE TO SERVE THE PARTY OF THE PARTY		umn (B):
Carbon dioxide Diaphragm Throat (pharynx) Oxygen	d. is a common or respiratory system. is a gas necestory control of the breathing d. is a gas production of the breathing d.	sary for respir at has an impo process	ration. ortant role in
Study the follow	ing table, the	n complete:	Car (C)
Distance (Meters)	200	200	100
Time (Seconds)	4	2	2

	Model Exam	7 13
C	hoose the correct answer:	
0		ood inside the mouth.
	a. Teeth only	b. Tongue only
	c. Saliva only	d. Teeth and tongue
0	As the angle of the inclined ramp de	creases, the object's speed
	a. increases	b. decreases
	c. remains constant	d. becomes zero
0	When light falls on a dark surfac	e,
	a, the surface absorbs the light	b. light passes through it
	c. the light is refracted	d. nothing happens
4	The bat is considered a	animal.
	a. nocturnal	b. morning
	c. harmful	d. non-flying
3	Morse code consists of	beeps known as dots an
	beeps known as dashes	
	a. short - short	b. long - long

Choose from column (A) what suits it in column (B):

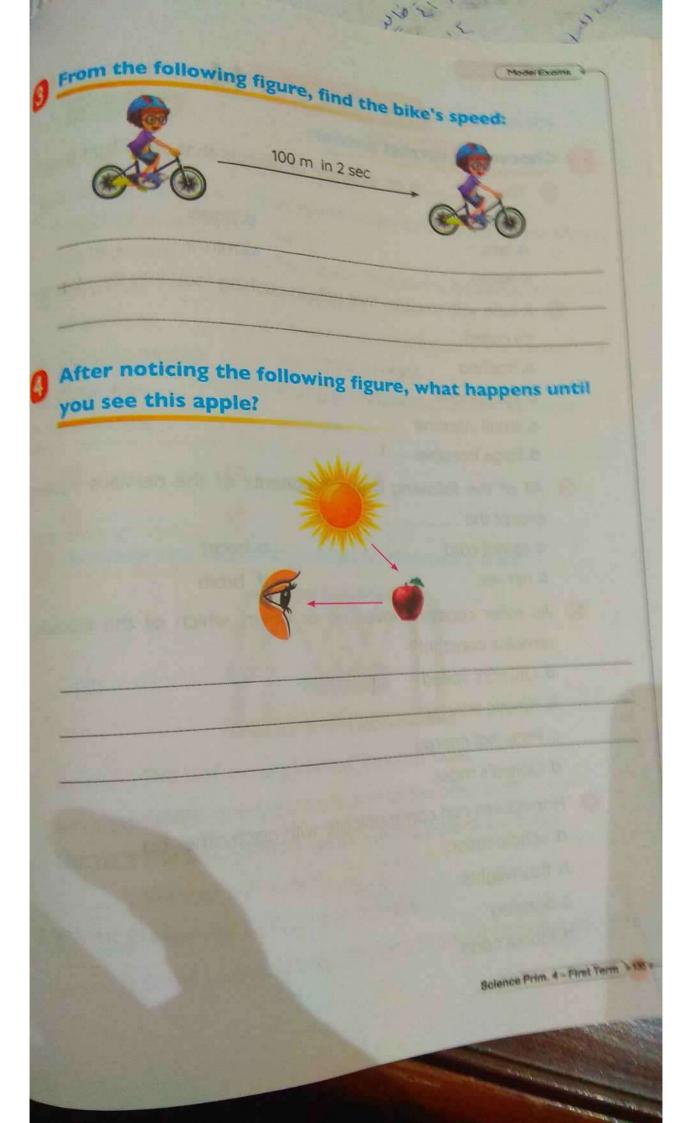
olumn (A)

c. short - long

ght amouflage ophagus aphragm nell

d. long - short

- a, it does not absorb food.
- b. a type of adaptation that helps animals to hide.
- c. ants use it to sense and communicate smells.
- d. it helps us see.
- e. a muscle that plays an important role in breathing



Choose the correct answer:

1 The
is an example of objects that allow liet.
through. a. lens
c. wood
A tube with muscles that help in pushing food into the stomach it's called
a. trachea
The Average Control of the Control o
b. esophagus c. small intestine
d. large intestine
All of the following are components of the nervous system
The state of the s
a. spinal cord b. heart
c. nerves d. brain
As roller coaster moves up or down, which of the following
remains constant?
a. Object's speed
b. Kinetic energy
c. Potential energy
d. Object's mass
Honeybees can communicate with each other by
a. echolocation
o. flashvlights
dancing
. Morse code
m. 4 – First Term

hoose the correct answer:

Prim. 4 - First Term

We can say an object is in a state of mot	ion when its	change
a. shape		
b. size		The !
c. color		F951
d. position		THE REAL
When your eyes see a red traffic ligh	nt, it sends a signa	to you to
a. increase the speed		
b. decrease the speed		
c. keep your speed		
d. start moving		
puff up (blow) their bodies with	the air to scare the	ir enemies
a. Bull sharks		
b. Panther chameleons		
c. Snakes		
d. Jerboas		
When light strikes an opaque object	t,	
a. light reflects		
b. light refracts		
c. shadow is formed		
d. light passes through it		
have the ability to turn the	eir heads in all di	rections
. Snakes	b. Jerboas	
Dolphins	d, Owls	

	Choose from column (A) what suits it in column (B):				
0-	mp (A)	(A) What suite			
Reas En S MC 6 Lig	ergy avity otion	b. it is the visible form of energy that is transmitted in the form of waves. c. the force that pulls things downwards. d. the process of pushing air in and out of the body. f. it is the ability to do work 3 6			
	A dolphin	can locate living organisms and things under the the water. Explain the feature that helps the dolphin			
0	There are senses to	some nocturnal animals that depend on their sharp get their prey, give examples.			
9	Snakes de night by se	pend on identifying their prey and catching them at ensing heat. Determine the reason.			
		Science Prim. 4 - First Term > 500			

Model Exam

choose the correct answer:

- oc 2d 3b 0d 5b
- Speed = distance \div time = $600 \div 6$ = 100 km/hr.
- which of the following surfaces represents the reflection of light rays from a wooden spoon and why?
- (B), because light rays reflect in different directions when they fall on a rough surface.

Model Exam 2

- Choose the correct answer:
- 1c 2d 3a 4b 3d
- Put (/) or (X):
 - 0 × 2 / 3 × 4 × 5 /
- Car (B) has higher speed because it covers a longer distance at the same time.
- Label the following two processes, then answer the questions:
 - (A): inhalation (B): exhalation
 - 1 It contracts and moves down.
 - 2 It decreases.

Model Exam 3

- Choose the correct answer:
- 0 b 0 c 0 d 0 a 0 c
- 2 Put (/) or (X):
 - OX OVOXOX
- Study the following figure, then choose the correct word:
 - (a) decreases slower
 - (b) increases faster
- (1) (A) Transparent (B) Opaque

Model Exam 4

- 1 Choose the correct answers
 - 0 b 0 d 8 c 0 d 8 c
- 2 Put (/) or (/):
 - 0 × 0 / 0 / 0 / 0 ×
- 3 Speed of the yellow car
 - = distance + time = 10 + 5 = 2 m/sec
 - Speed of the green car = distance + time
 - = 20 + 5 = 4 m/sec.
 - The green car is faster.
 - A Figure (2)

Science Prim. 4 - First Ferm 183

Final Revision Model Ex

Model Exam 5

- ① Choose the correct answer:
- 1 b 2 c 3 a 4 c 5 b
 - 0 / 0 / 0 × 0 / 0 ×
- Speed = distance ÷ time = 1200 ÷ 20 = 60 m/sec
- 4 Classify the following words in the table:

Digestive	Nervous	Respiratory
System	System	System
- Tongue - Anus - Liver - Stomach - Small Intestine	- Brain - Spinal cord - Nerves	- Lungs - Nose - Alveoli

Model Exam 6

- Choose the correct answer:
 - 1 b 2 c 3 a 4 b 5 b
- 2 The red car faster because it covers longer distance at the same time.
- 3 Choose from column (A) what suits it in column (B):
 - 1 b 2 a 3 e 4 d 5 c
- What is the types of adaptation in the following cases?
- 1 Behavioral 2 Structural
- 3 Structural 4 Behavioral

Science Prim. 4 - First Term

Model Exam 7

- 1 Choose the correct answers
 - 00 00 00 00
- 2 Put (/) or (X):
 - 0× 0/0/0/0
- 3 Classify the following according the sense that the living organic uses to communicate and

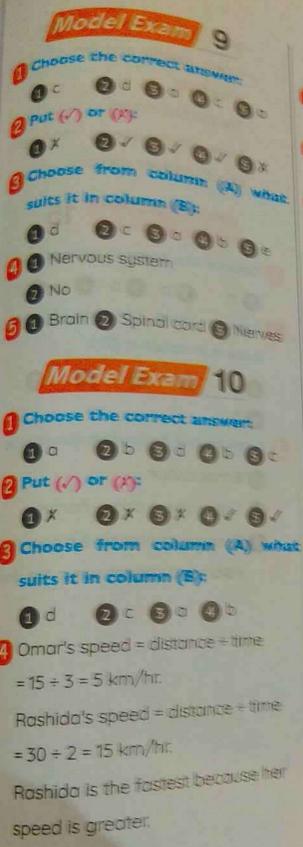
Movement	Hearing Sense	Smell Sense	Touch Sense	100
Bees	-Dolphins -Bats -Egyptian mangaoses	Ants	Shakes	200

4 Speed = distance + time= 200 - 5 = 40 km/hr

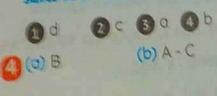
- (1) Choose the correct answer
 - 0 b 0 c 8 d 0 b 6:
- 2 Put (/) or (X):
 - 0 × 0 / 0 / 0 × 0 :
- 3 Classify the following words to the table:

Shiny Surfaces	Rough Surfaces	Transparet Surfaces
Mirror	Wood	Glass
Metal	fact of the	Plastic

- (A) Choose from column (A)
 - suits it in both columns (B) & (C)
 - 1 b-c
- 000 0s



Model Exam Choose the correct answers 9 0 00 0 0 0 0 0 0 0 @ Put (/) or (x): Ox Ox Ox Ox Complete using the following words: 1) Fennec foxes 2 Bots 3 Owls A Bull sharks Arrange the following steps: - Light falls on objects. - Light reflects on the eyes. - Eye pupils allow the light to enter the eyes. -Sensory receptors at the back of the eyes send signals to brain. - Brain translates these signals. Model Exam 12 Choose the correct answer: 2 b 3 b 4 c 5 a 2 Put (/) or (x): 2 x 3 x 4 / 3 / Choose from column (A) what suits it in column (B):



Science Prim. 4 - First Term -175

Final (Revision)

Model Exam 13

- 1 Choose the correct answer:
 - 10 0 0 0 0 0 0 C
- 2 Choose from column (A) what suits it in column (B):
 - 10 d 2 b 3 a 4 e 5 c
- 3 Speed = distance + time = 100 ÷ 2 = 50 m/sec.
- Light falls on the apple.
 - Light reflects from the apple to the eue
 - Light enters the eye through the pupils.
 - The sensory receptors of the eyes send signals to the brain to translate them.
 - The brain translates and processes this information.

Model Exam 14

- Choose the correct answer:
- 10 2 b 3 b 4 d 5 c Choose from column (A) what

suits it in column (B):

2 a 3 c 4 e 5 d

Arrange the following steps:

- The ball is raised up so it stores potential energy.
- The ball moves toward the other balls.

- When the ball hits the first ball
- Kinetic energy transfers to all the
- The last ball moves.
- Some kinetic energy changes to sound and heat energies.

- 1 Choose the correct answer:
 - 2 b 3 b 4 c 6d
- Choose from column (A) what suits it in column (B):
 - 1 e 2 d 3 f 4 c 6 a
- 3 Answer the following questions:
 - 1 Echolocation
 - Cats deer dogs horses
 - 3 Because snakes have a poor night vision and cannot see in the dark

1 Cairo Governorate - Nozha Edu Administration

1. Choose the correct answer:

1 An animal that has the	e ability to tur	n the head in all dire	ctions is
a. Snake	b. Jerboa	c. dolphin	d. owl
2 The ability to do wor	k is		
a. Energy	b. Force	c. Push	d. Pull
3 Animals can commun	icate with eac	ch other through	
a. Sounds and lights	b. talking	c. reading	d. writing
4 One of the light refle	cting material	s <mark>is</mark>	
a. wood	b. mirrors	c. plastic	d. paper
5 The force that allows	down or decr	e <mark>ases t</mark> he speed of a	n object is
a nush	h gravity	c friction	d pull

2. Put (V) or (X):

1 The food passes through the large intestine before it goes into the small in	testine. ()
2 Energy is neither destroyed nor created from nothing.	()
3 Wood is a transparent object that allows light to pass through it.)
4 The respiratory system is responsible for the entry of air into the body.	56)

3.<u>Match:</u>

(A)	(B)
1)Camouflage	a)The force that pulls things downwards.
2)Vibrating motion	b) A type of adaptation that helps an animal to hide.
3)Gravity	c) Carry messages to the brain via spinal cord.
4)Nerves	d) A way to communicate between some animals.

Governorates Exams 2021- 2022 - Exam (2)

1. Choose the correct answer:

1 Raising the thumb	up or lowering it d	own is a kind of	
a. colors	b. codes	c. waves	d. lights
2 one of the behavio	ral adaptations th	at help the animal	protects itself from
enemies is			
a. camouflage	b. extinction	c. immigration	d. reproduction
3 Is covering	ig the body <mark>of a</mark> rc <mark>t</mark>	ic fox.	
a. Heavy hair	b. T <mark>hick fur</mark>	c. <mark>h</mark> eavy skin	d. many feathers
4 The ability to do wo	ork is		
a. Energy	b. Force	c. Push	d. Pull
5 The force that pulls	the objects down	towar <mark>d the c</mark> enter	of the Earth is
force			
a. pushing	b. gravity	c. pulling	d. wind

2. Put (√) or (X):

I he ear is the sense organ which is responsible for seeing objects.		1_)
2 The moon is a source of light.	6	()
3 Exhaled air carries oxygen.	5	-)
4 When the static body is affected by balanced forces, the body moves.		1)
5 When you kick a ball, kinetic energy is produced.		()

3.Match:

(A)	(B)
1) Motion	a) A muscle that has an important role in the respiration process.
2) Structural adaptation	b) The change in the position of an object with respect to a fixed point.
3) Diaphragm	c) A structural adaptation whose function is similar to the lung.
4) Gills	d) the flat teeth in some animals to feed a type of food like grass.

Governorates Exams 2021- 2022 - Exam (3)

1.Choose the correct answer:

1 All of the following ar	e components	of the nervous system	n except				
a. Spinal cord	b. Nerve s	c. Brain	d. Heart				
2 Animals can communicate with each other through							
a. Sounds and lights	b. Talk	c. Writing	dReading				
3 Is covering t	he body of arcti	c fox					
 Heavy hair 	b. Thick fur	c. heavy skin	d. many feathers				
4 To communicate throu	igh <mark>the sens</mark> e o <mark>f</mark>	sight we need					
a. Making sound b. Availab	a. Making sound b. Availability of light c-Hearing music d-Touching something						
5 When you put your ha	nd on a hot surf	<mark>face,</mark> the brain sends	a message to the				
muscles and the action tha	t comes from ye	<mark>ou immediate</mark> ly after	r it is to				
a. Keep placing your ha <mark>nd</mark>	b.	You will do nothing					
c. You feel pain	d.	Pull your hand away	from a hot object				
							

2. Put (√) or (X):

1 The food changes from complex form to simple form through digestion process.	()	
2 Dolphins have strong sense of sight	1)	
3 Tongue is an organ of sight.	()	
4 When balanced forces are applies on an object at rest, it will body move.	1)	
5 The type of adaptation in the fishing cat's eyes is a behavioral adaptation.	()	

3.Match:

(A)	(B)
a. it depends on the body's sense of heat for predation	1. Light
b. b-It depends on the echo of the sound in locating the prey	2. Owl
C. An animal with a bowl- like face and strong senses of hearing and vision.	3. Snake
d. it is the visible form of energy that is transmitted in the form of waves/	4. Bat
e. A structural adaptation in the eye that provides some animals with better vision at night.	5.Mirror-like membrane

Governorates Exams 2021- 2022 - Exam (4)

1.Choose the correct answer:

1 The organ re	sponsible for the sight	sense is		
a. Nose	b. eyes	c. heart	d. mouth	
2 Which featur	e of the light help you	see yourself in the mir	ror?	
a. Refraction	b. Reflection	c. Shortness of rays	d. Nothing	
3 The measuring	ng unit of speed is			
a. m/s	b. km/s	c <mark>. s/m </mark>	no correct answer	
4 when a body	moves fo <mark>rward, the c</mark> h	<mark>ange that</mark> occur is		
a. the position of	the bod <mark>y b. t</mark> he size of	body c-the mass of bo	dy d-The Earth's gravity	1
Tarsier monk	key is a <mark></mark> <mark></mark> ar	nimal		
a. morning	b. nocturnal	c. harmful	d. flying	
	X 180			
2. Put (v	<u>/) or (X):</u>			
1 penguins forming	g large group is a struc	t <mark>ural ad</mark> aptation.	()
(1) The above to the co	ensory organ that mak	es you feel the smooth	ness of the cloth. (١
(2) The skin is the s		: Tark Tark - 부분 - 120 - 120 (120 120 120 120 120 120 120 120 120 120	가입아 그 아이는 그 이 아이는 아이는 아이를 하는데 아이를 하는데 하는데 아이를 하는데 하는데 없다.	
$\check{\sim}$	oonsible for processing		000	,)
The brain is resp	oonsible for processing	information.	DEE	,) s
The brain is resp	oonsible for processing	information.	kinetic when car start) s)
The brain is resp The chemical pormoving.	oonsible for processing	information. ar fuel is converted into	DEE	,) s)
The brain is resp The chemical pormoving. Mass doesn't aff	oonsible for processing tential energy in the carect the kinetic energy.	information. ar fuel is converted into	kinetic when car start ())
The brain is resp The chemical pormoving. Mass doesn't aff	oonsible for processing tential energy in the carect the kinetic energy.	information. ar fuel is converted into	DEE))
3 The brain is resp 4 The chemical pormoving. 5 Mass doesn't aff 3.(<u>A) Comple</u>	oonsible for processing tential energy in the carect the kinetic energy.	information. ar fuel is converted into	kinetic when car start ())
The brain is responded to the chemical point of the chemical point	consible for processing tential energy in the case the kinetic energy.	information. ar fuel is converted into	kinetic when car start ())
The brain is responded to the chemical point moving. Mass doesn't afformation of the chemical point moving. Mass doesn't afformation of the chemical point moving. Complete the chemical point moving.	consible for processing tential energy in the case of the kinetic energy. The control of the case of the follow energy. The cobjects	information. ar fuel is converted into	kinetic when car start: ((s from the two (Carton - Glass)))
The brain is responded to the chemical port moving. Mass doesn't afformation of the chemical port of the chemical	consible for processing tential energy in the case of the kinetic energy. The control of the case of the follow energy. The cobjects	information. ar fuel is converted into	kinetic when car start: ((s from the two (Carton - Glass)))
The brain is responded to the chemical port moving. Mass doesn't afformation of the chemical port of the chemical port o	tential energy in the carette the kinetic energy. ete the kinetic energy. e objects	information. ar fuel is converted into	(Carton - Glass) other. (sound - light))) <u>)</u>
The brain is responded to the chemical port moving. Mass doesn't afformation of the chemical port of the chemical port o	tential energy in the carette the kinetic energy. ete the kinetic energy. e objects	information. ar fuel is converted into	(Carton - Glass) other. (sound - light))) <u>)</u>
The brain is responded to the chemical portage. The chemical portage of the chemical portage. Mass doesn't afform the opaque. Bats use	consible for processing tential energy in the carect the kinetic energy. The cobjects	information. ar fuel is converted into	(Carton - Glass) other. (sound - light) halation - exhalation))) <u>)</u>
The brain is responded to the chemical port moving. The chemical port moving. Mass doesn't afford the chemical port afford the opaque and the car slows down (B) Calculate the specific specific the car slows down (B) Calculate the specific and the car slows down (B) Calculate the car slows down (consible for processing tential energy in the case of the kinetic energy. The cobjects	information. ar fuel is converted into	(Carton - Glass) other. (sound - light) halation - exhalation) lt of (friction - Tension)) <u>)</u>
The brain is responded. The chemical port moving. Mass doesn't afform the opaque. Bats use	e objects	information. ar fuel is converted into ing sentences munication with each o process. (In rns out to fuel as a result rs 600 km in a time 6 ho	(Carton - Glass) other. (sound - light) halation - exhalation) It of (friction - Tension)) <u>)</u>
The brain is responded. The chemical port moving. Mass doesn't afform the opaque. Bats use	e objects	information. ar fuel is converted into ing sentences munication with each o process. (In rns out to fuel as a result rs 600 km in a time 6 ho	(Carton - Glass) other. (sound - light) halation - exhalation) It of (friction - Tension)) <u>)</u>
The brain is responded. The chemical port moving. Mass doesn't afform the opaque. Bats use	e objects	information. ar fuel is converted into ing sentences munication with each o process. (In rns out to fuel as a result rs 600 km in a time 6 ho	(Carton - Glass) other. (sound - light) halation - exhalation) It of (friction - Tension)) <u>)</u>

Governorates Exams 2021- 2022 - Exam (5)

1.Choose the correct answer:

1 The chemical energy stored in	n batteries	is considered	a forr	n of
a. potential energy b. heat e	nergy c.	kinetic energ	у	d. Light energy
2 bees can communicate with	n each othe	er through		
a. Sounds b. Moven	nent	c. Wav	ing	dReading
3 Is covering the boo	ly of panth	er chameleo	n	
 Heavy hair b. Tl 	nick fur	c. heavy	skin	d. colorful scales
One of the behavioral adapt	ation that I	<mark>nelp anima</mark> ls	to hide	e from their
enemies is				
a. reproduction b. extinction	c-cam	ouflage	d-ir	nmigration
(5) When light falls on wooden	s <mark>urface, it v</mark>	vill		
a. refracts b. reflects evenly	c. reflect	unevenly d.	pass t	hrough the surface

2. Put (√) or (X):

1 The brain is responsible for processing Information.	()
2 The Moon is a source of light.	SE
3 Gravitational force is an upward pulling force.	155
(4) Animals can use more than one sense to communicate with each of	ther. ()

3. (A) Match:

(A)	(B)	
1) Motion	a) The ability to do work.	
2) work	b) the change in the position of an object with respect to a fixed point	
3) Energy	c) The force that causes the body to move.	
4) Gas oven	d) It converts chemical energy into heat energy.	

(B) Answer the following:

b. 2

a. 1

<u>1.Cho</u>	ose the c	orrect an	swer:		
1	are panting	g to lower their	body temp	erature.	
a. Bats	b. Lions	c. Whales	d. Fo	xes	
2 Humpba	ick whales use s	inging for			ARE
a. heating	b. reproducti	on and nutritio	n c. hiding f	rom enemies	d. having fur
3 Tapetum	lucidum exists i	n all following	excepts		
a. The	Horse b	the human	c. the cat		d. the dog
4 The ener	gy gained by a b	all when it falls	from above	e is:	
a. Pot	ential energy b	chemical energ	gy c. kinetic	energy d. lig	tht energy
5 In the	<mark>opposite</mark> figu	ıre:			
(1)	(2)		(3)		(4)
Which ball ha	as the greatest p	otential energy	/?		

c. (3)

d. (4)

2. Put (√)	or	(X):			
		ability to rotate their heads in all directions.		()
(2) Red and green I	light	are considered codes.		()
		s an upward pulling force.		()
3. (A) <u>Match:</u>					
(A)	(B)				
1) The brain	() a- Not important in processing or rece	iving inf	orn	nati
2) Nerves	(co) b- It is similar in its processing of info	rmation	to	а
	() c- Carry messages to brain via the spi	nal cord.	K ()	
is called (B).Write the	es ti	llowing: nat have same color of the tree they son that makes cats have excellent essfully at night	night v		
5. Complete t	the	following sentences from	the 1	tw	<u>/0</u>
brackets:					
1 The different two la	angu	ages are considered (Codes	s - Lights)		
2 When light falls on	an d	bject and the lightSo, We can see	this object ts - reflect		
3 The diaphragm rise	s do	wn during the process. (Inhalat	tion - exha	lati	on)
4 the body that has p	oter	tial energy is instate (motion	ı -rest)		

Governorates Exams 2021- 2022 - Exam (7)

1.Choose the correct answer:

4) the reflex actions

T.CHOOSE th	e correct	Laliswei.		
1 The organ respons	ble for the sigl	nt sense is	••	
a. Nose	b. eyes	c. hear	t	d. mouth
2 The ability to turn	the head in	all directions		
a. Dolphin b. S	Snake c.	Owl d	l. fennec fox	(
3 energ	y affects sens	o <mark>ry rec</mark> eptors i	n eyes caus	sing vision.
a. sound b. l	neat c	. C <mark>hemical</mark>	d. li	ght
4 Your sensation of	h <mark>ot weather</mark>	depends on sei	nsory recep	otors in
the				
a. eyes b. skin		c-nose	d-ears	•
5 Jerboa is a	animal.			
a. morning	b. nocturnal	c. harmful		d. flying
1) Sending bad smell by a 2) Speed is a physical qua 3) All different languages 4) In electric fan, kinetic e 5) Collision is crashing two	antity. not considere energy is conve	d as codes rted into electric	AL	DEE,
(0)	(5)			
(A)	(B)		// = 0	
1) the spinal cord	computer.	s similar in its	processing	g of information t
2) using the sense of sight	() b- wh	en a foreign ol	oject is bro	ught to your eyes
3) the brain	() c- who	en an object fa	ls from yo	ur hands

) d- the transmission of commands to

the muscles to contract

Exam (8)

1.Choose the correct answer:

1) All the following sentences are correct about stomach, except		
a. It connects with anus.		
b. It connects with esophagus and small intestine.		
c. the food changes into soupy liquid inside it.		
d. It has gastric juice and muscles work together.		
2 Sound and light are two types of energy where,		
a. The sound energy can be seen, while light energy can't be seen.		
b. the light energy can't be seen and sound energy can't be seen.		
c. Both can be seen.		
d. Sound energy can't <mark>be se</mark> en, while light can be seen.		
3 Antelope that live in wide, open plains must adapt by using		
a. Thick fur which hel <mark>ps to ke</mark> ep them warm in winter.		
b. Long legs which help them run fast		
c. bright colors to help them attract a mate		
d. Their hard outer shell to protect them		
4 When Light falls on a rough surface, it is		
a. Reflected		
b. Diffused (Scattered)		
c. Absorbed	1	5
d. Transmitted		51
(5) Which type of energy can travel through a vacuum (transparent b	ag).
a. Light		A(
b. Sound		
c. Chemical		
d. Potential		
2. Put (√) or (X):		
2.1 at (V) or (X).		
humpback whales produce only one type of songs.	()
the bus that covers 60 kilometers in 1 hour has a speed = 60m\sec.	()
3) some of kinetic energy is changed during collision of balls in Newton's cradle.	()
Some of kinetic chergy is changed during complete of balls in Newton's cradic.		1
digestion process begins in stomach with the help of salvia.	(1
$\tilde{\wedge}$	(iliti) ies
digestion process begins in stomach with the help of salvia.	(iliti (es)
digestion process begins in stomach with the help of salvia. some animals have extra abilities that human do not have, and these extra ab	(iliti (ies)

3.Match

(A)	(B)
1. Airbag a. is used for stopping both of the sh truck and rockets.	
2. Jet engine	b. is used for knocking down
3. Wricking ball	c. is used to reduce the speed of a person moving forward.
4 . Parachute	d. d. Is used for telling the blind person the direction when it vibrates.
5. Blind person's cane	e. is used for moving the shockwave truck.

		direction when it vibrates.
	5. Blind person's cane	e. is used for moving the shockwave truck.
12345	Sources of light. Patterns of codes Forms of potential energy. Rough materials. Correct the underline:	(
(1	A ball's potential energy increases as it	slides down on inclined surface. ()
<u>6</u>	V	essing information coming through eyes.
E	The spinar cord is responsible for proce	
6) D	()
(3	By increasing the number of fire extingt	uisher, the speed will <u>decrease</u> . ()
(4	Humpback whales have similar sounds	according to the season. ()
(5	the ability to do force or cause a change	e is known as energy. ()
<u>e</u>	6. Write the scientific term:	
($oldsymbol{1}$. Bouncing of light when it falls on a	reflecting surface. ()
(2) It is the change in position of an obje	ect relative to its starting point.
,	<u> </u>	()
	3) the change in the living organism's	pehavior allows it to survive in it's habitat.
	Grange in the living organisms t	(
1	2	, r
(the waves that travel through air in	a straight line causing vision. ()

Governorates Exams 2021- 2022 - Exam (9)

1. Choose the correct answer:
1 fish extracts oxygen out of water through
a. skin b. gills c. lungs d. fins
(2) The system helps us to translate messages that come from our
surroundings, such as smells and sounds
a. respiratory b. nervous c. digestive d. circulatory
3 The surface that regularly reflects light is
a. dark and impurities b. smooth and shiny c. transparent d. rough and dark
4) What is the speed of a train that travels 800 meters in 4 seconds?
a. 40 m/s b. 4 m/s c. 200 m/s d. 80 m/s
(5) All the following represent the pushing force except
a. kicking a ball b. pressing on electrical switch
c. closing the disk's drawer d. dragging the hook after catching a fish
2. Put (√) or (X):
(1) Red and green traffic are considered codes. ()
2 The eye is the sensory organ that makes you feel the smoothness of the cloth. ()
3 The thick fur that some animals possess to protect from the cold is considered a
behavioural adaptation.
4 In the fan, the kinetic energy is converted into electric energy. ()
() Gravitational force is one of the kinetic energy forms.
3. Write the scientific term:
1. A process through which diaphragm expands and moves up. ()
2. It is the energy transferred by a force that used to move the object.
3. It is a push or pull that is applying to an object causing it to change its position.
B) Explain:
1. There are some nocturnal animals that depend on their sense of
heat to get their prey. Explain with an example.

Governorates Exams 2021- 2022 - Exam (10)

1. (Cho	ose	the	correct	answ	er:
------	-----	-----	-----	---------	------	-----

	Ti Choose th	ic correct	. alisveli.		
	1 Bats are	animals			
	a. Nocturnal	b. moving	c. not hearing	d. not flying	
	2 The ability to do w	ork is			
	a. Energy	b. Force	c. Push	d. Pull	
	3 All of the following	are components	s of the nervous sy	stem except	
	a. Spinal cord b. h	eart c. n	e <mark>rves</mark> d. braiı	1	
	4 The chemical energ	gy stor <mark>ed in bat</mark> te	e <mark>ries is con</mark> sidered	a form of	
	a. potential energy	b. heat energy	c. kinetic	energy d. light ene	rgy
(2. Put (V) o 1 In order to translate th 2 When a pen falls down 3 The respiratory system	ne code, the brain	d <mark>, then the</mark> acting fo	() rce.)
(3. <u>Match:</u>		76 0	MOE	5
1	(A)	(B)	3 1		
	1)Kinetic enegy	a)A form of end	ergy.		
	2)Sound energy	b) A part of the	car that shows the	change in speed.	
		c) It is the prod	uced energy during	the motion of the o	bjects
4	.Complete the follo	wing sentend	es using word	s between brack	cets:
1	. The eye sends messages	to thro	ough the nerves.	(brain – Spinal d	cord)
	2. The fatty layer under the			(structural– bel	
	3. When a person pushes a		body begins to sw		
	his stored energy	**************************************		(consumes- incre	eases)
3	5. Answer the follow 1. Note the following two	CAN DESIGN AND SHOPE SHOPE	192 5550 710		
	of the two processes in fig		are name or each	~ (~ le	
	Process (1): F				
2	2. What happens to diaphi	ragm in figure (1))?		1
••					•

Governorates Exams 2021- 2022 - Exam (11)

3. Choose th	e correct ar	nswer:		
(1)Use i	panting to lower the	eir bodies temp	erature.	
a. Foxes	b. Cats	c. Bats	d. Whales	
(2) All of the follow	ring are components	of the respirat	orv system except	·
a. lungs		. diaphragm	d. nose	
	mine a sweet or bit	250	se	
a. The eye	b. The tongue	c. The human		e
	the following allows	s passing of the	light through it? .	
a. Wood	b. Glass	c. A rock	d. Moon	5.7.55.7.7.7.7.5.5.7.5.07.00
(5) Tapetum Lucidu	m exists in all of the	following exce	pt	
a. the house	b. the human	c. the cat	d. the dog	
Put (√) or	(X):			
	T-7//	force		
Gravitational force				
Bees can know the				()
(3) Wall is an opaque of		allow light to p	ass through it.	()
4) Plants have two typ		7.6.		201
(5) Respiration is a pro	cess of pushing air i	n and out of the	e body.	33
3. Complete the fo	lowing sentenc	es using wo	rds between b	rackets:
1. The car slows down it			result of (tens	ion – Friction)
2. A body that has pote			and the same of th	motion)
3. The eyes sends messa 4 mix and gri			(Teeth only – Teet	pinal cord) h and tongue)
5. Bats use their sense of			File Supplemental Control of the Con	g – smell)
4.Complete the fol		<u>51</u> -		
1) If two carse moved				
meters, while car (B) co				
higher speed				
2 Two balls have put				
height 4 meters. Wh				

Governorates Exams 2021- 2022 - Exam (12)

1. Choose the o	orrect ansv	ver:		
1 The measuring ur	nit of the distance is	s		
a. km/s	b. m/s c. km	d. kg		
(2) The force that pu	Ils objects down to	ward to the ce	enter of the Earth is	
a. gravity	b. pulling	c. friction	d. pushing	
3 You could determ	nine how loud the t	rain sound is b	ογ	
	Sound style c. so		d. sound type and style	
4 Bees can commu				
	ights c. od		d. movements	
(5) Writing is a kind	of			
a. colors	b. waves	c. lights	d. codes	
2. Put (V)	or (X):			
1 Force is energy and t		in hetween th	em (Y
2) The brain translates			t (,
\tilde{a}				,
3) The mouth helps to p			ALAPI	
4 Energy doesn't trans				2) [
(5) When you push a car	and it doesn't mov	ve so there is a	work done.	7
3.Answer the f	ollowing a	uestion		
		A.	(annual) of a manifum abi	
		5-4 All	(speed) of a moving obj	ect
depends? 1 (B)How can we calc				
			ematical fule.	
(C) Mention two ex	amples of the str	uctural adap	tation of fennec fox?	ee, ee en ac
	W.	234		

Governorates Exams 2021- 2022 - Exam (13)

4. Choose the correct answer:

1 Our eyes help us se	e what's around us	. What is the resp	onsible for perceiving
what we can see with o	ur eyes?		
a. The stomach	b. The nerve	c. The brain	d. The heart
2 Eagle is a kind of p	rey bird (which eats	s meat). Its beak s	trong and sharp. This
structural adaptation h	elps it to		
a. see	o. cut meat	c. find a shelter	d. fly faster
3 Which one of the f	ollowi <mark>ng is an e</mark> xa <mark>m</mark>	<mark>iple of</mark> the conver	sion of kinetic into
potential energy:			
a. a ball falls from the t	o <mark>p of a hill b. Raisir</mark>	ng a roller coaster	to the top of a hill
c. pushing a ball on the	ground c. A rolle	<mark>er coaster fal</mark> ls to	the bottom of a hill
4 The system	m helps us to transl	<mark>ate</mark> m <mark>essage</mark> s tha	t come from our
surroundings such as si			
a. digestive	o. circulatory	c. nervous	d. respiratory
5 What happens who	en a dr <mark>iver pres</mark> ses 1	<mark>the brak</mark> es and sto	op suddenly?
a. The passenger move	s backward	b. The passe	nger moves forward.
c. The passenger remai	ns stable	d. No correc	t answer
5. <u>Put (v) or (</u>	<u>x):</u>	IF A	LDEE
f L The ear is the sense $f o$	rgan which is respo	nsible for seeing	objects. (

2 A static ball moves on the ground if it is affected by a force.	()	
3 Speed is a physical quantity.	()	
4 If I can see my face clearly on a surface, this means that it is a smooth, shiny	surfac	ce.	
5 Some animals that live in cold have long ears; To help them to main body temperature warm.	tain 1 (, the)	

3.Match:

(A)	(B)
1) Light	a)An animal with a bowl-like face.
2) Owl	b) It is a visible form of energy that is transmitted in the form of waves.
3) The bat	c) Feeds on small lizard and birds
4) Tarsier	d) It depends on the echo of the sound in locating the prey.

4. Complete the following sentences from the two brackets: ① If several bodies covered equal distances in time, Then these bodies move at different speeds. (equal – different) ② helps owl to pick distant sounds and amplify them. (Head rotation – Specialized head feathers) ③ An animal that can escape from enemies because of the length its hind leg
C. C
5. Answer the following questions: ① Some animals have thorns to defend themselves against enemies. What type of adaptation? ② The code can be expressed by using some patterns Give one example ③ Butterflies that have colour like the colour of the tree they live on this phenomenon called
ARIM SAIF ALDEE